RAILWAY AND COMMERCIAL GAZETTE:

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1327.—Vol. XXXI.

LONDON, SATURDAY, JANUARY 26, 1861.

STAMPED.....SIXPENCE. UNSTAMPED..FIVEPENCE.

MR. JAMES CROFTS, SHAREBROKER, that he BUYS and SELLS every description of BRITISH and FOREIGN STOCKS and SHARES, particularly BRITISH MINING SHARES, on which dividends are regularly paid realising from 15 to 20 per cent. per annum. The improvements in the market predicted a few weeks since are now matter of fact, particularly dividend stocks.

WEEKLY LIST of SHARES RECOMMENDED for IMMEDIATE PURCHASE,

WEEKLI LIST of and sure for profits:

North Minera (special).
Stray Fark.
East Caradon.
East Grenville.
West Wendron.
St. Ives Consols.

Mr. Cropts has business to transact in all the above mines.

W. Bryn Gwiog (special). Beneath Wood. Bryntail.
East Budnick and Mount.
West Wendron.
Wheal Nelson.

MR. JAMES LANE. No. 44, THREADNEEDLE STREET, LONDON, E.C. JAMES LANE has FOR SALE, at nett prices:—10 Aifred Consols, £3; 50 Bottle Hill, 26s. 9d.; 20 Beneathwood, 12s. 6d.; 5 Boscandle, £3½; 20 Buller and Bertha, £2; 10 Calstock Consols, £3½; 50 Charlotte, 21s.; 50 Crebor, 20 Dale, 6s. 3d.; 10 East Carn Brea, £7½; 20 Drown Union, 12s. 6d.; 5 East Carndon, £11½; 30 East Devon Consols, 30s.; 30 East Wheal Russell, £7½; 50 Furze Hill Wood, 12s. 6d.; 20 Great Hetallack, 37s.; 20 Great Wheal Martha, £1; 10 Harriett, £2; 10 Holmbush, £2½; 50 Great Affred, 19s.; 5 Great Wheal Fortune, £1; 20 Ludy Bertha, 29s.; 20 Lady Eliza, 9s. 6d.; 20 Wheel Ludcott; 2 Margaret, £66½; 20 Marke Valley, £4½; 20 Merllyn, 29s.; 20 Myle, 30s.; 10 Mill Pool, 21s.; 20 North Minera, 29s.; 20 North Exmouth, 13s.; 10 New Treleigh, 50s.; 10 North Downs, £4; 2 North Roskear, £26; 40 Redmoor, 4s. 3d.; 20 Pendeen, £5½; 5 Stray Park, £40; 20 Tamar Consols, £2½; Wendron Consols, £3½.

POR SALE, immediate delivery:—
20 Arthur, 4s. 1½d.
10 Grambler, £24.
50 New Francis, 8s. 3d.
10 Rossewall and Ransom.
5 Rosewarne & Heriand.
2 St. Ives Consols, £47.
Apply to John WM. HUTCHINSON, 78, Old Broad-street, London, £36.

January 25, 1861.

HAREHOLDERS IN MINES.—A REVIEW of DIVIDEND and NON-DIVIDEND MINES appears in PETER WATSON'S WEEKLY MINING CIRCULAR AND SHARE LIST (Nos. 145, 146, and 147, Vol. III.) of the 4th, 11th, and 18th January, and will be continued until finished in the next two or three numbers. Price 6d. each copy. This review contains an account of about 150 Cornish and Devon Mines, their present and future prospects, with advice as to purchases and sales of shares.

PETER WATSON, ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES.

7, OLD BROAD STREET, LONDON, E.C. MINING SHARES BOUGHT AND SOLD.

NOTICE TO SUBSCRIBERS, CLIENTS, AND THE PUBLIC.—PETER WATSON takes this concentrative of stations to be found PUBLIC.—PETER WATSON takes this opportunity of stating to his friends, and the public, that he continues to transact business in the purchase and sale of Mining Shares and all other Securities. Payment of calls, receipt and transmission of dividends, obtaining information for customers, and affording advice to the best of his sality and judgment, based on the experience of 15½ years' active connexion with Mining—its management, and the Mining Market, as well as of tin, lead, and smelting corrections:

Mining—its management, and the Mining Market, as well as of tin, lead, and smelting operations.

Peter Warson also informs his clients and the public that he transacts business in Public Funds, Railways, Docks, Insurance, and every other description of shares dealt in on the Stock Exchange, and on the same terms, and has peculiar facilities for so doing. He also begs respectfully to repeat that, in all cases where he transacts business at net prices, and takes the risk on himself, he wishes his clients and subscribers to clearly understand that he disposes of shares or purchases them according to orders, at fair, market prices, and considers his profit should not be less than 2½ per cent., according to the value of the shares. And further, as he is daily asked his opinion of particular mines, as well to recommend mines to invest in or speculate in, he gives his advice, and recommends mines to the best of his judgment and ability, founded on his many years connection with mining management, and on the best practical advice he can obtain from the mining districts, without reference to expense, and he will into the held responsible or subject to blame if results do not always equal the expectations he may have held out in a property so fluctuating as mining.

Peters Warson will afford statistical information gratuitously on application, as well, as recommend mines either for investment or a rise in market value, on the distingt understanding that any business resulting through his information or advice be doged through him.

DEPRESSION IN MINE SHARES.—During the past six or seven months there has been a serious and general depression in all mines, equal on an average to nearly 50 per cent. For safe investment, and for a great rise, therefore, Peren Warson is prepared to recommend six dividend and six progressive mines, which from the present position and future prospects, he feels confidence in recommending to these who may favour him with their confidence and business. The present depression is like that of 1847, 1887, and 1898, and in the course of two or three months the mining market will, no doubt, become buoyant again.

MR. LELEAN, STOCK AND SHAREDEALER,
4, CUSHION COURT, OLD BROAD STREET, LONDON, E.C., has SPECIAL
BUSINESS to TRANSACT in GREAT RETALLACK SHARES.
WANTED:—50 to 100 shares in West Condurrow, and 20 shares in Spearne Moor

M R. E. GOMPERS, MINING OFFICES,
3, CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C.
BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES.
Terms, 1½ per cent.
Mr. Gospers has also FOR SALE the following shares, free of commission:—
2 Stray Park, £40.
20 Great Alfred, £1.
30 East Rosewarne, 34s.
15 Crelake, £3½.
20 Ment Edward, £2.
20 South Condurrow, £1.
20 South Condurrow, £1.
30 Lady Bertha, 31s.

20 West Edward, £2.

20 South Condurrow, £1.

Mr. Goupfens is a BUYER of the undermentioned:—

70 Great Martha.

3 Bryn Gwiog.

60 Charlottee United, £7/a.

3 Wheal Providence.

50 Norris, 20s. 6d.

1 Margaret.

EAST WHEAL RUSSELL MINE.—These shares are being severely handled, for what with the telegrams this way and telegrams the other they have been knocked down in price, and if the system continues they must go lower, to the great detriment of the bona fide holders. I have for many years past supported the market, recommending a purchaser when the shares were but a few shillings in value, and have continued to do so up to quite recently, to the benefit of those who have followed me. Now that the mine has become a medium for unserapulous gambling between the London and Tavistock parties there must be an end to all legitimate business, and the public, as a necessary consequence, are the sufferers. I cannot, therefore, recommending the mine for investment at present price.

Bankers: London and Westminster Bank.

MR. GEORGE BATTERS, 5, COWPER'S COURT, BIRCHIN LANE, DEALER IN BRITISH MINING SHARES AND OTHER STOCKS.

Mr. BATTERS, from long experience and intimate acquaintance with all Mining Stocks, ean advise as to investment of capital, at the closest market prices.

Mr. BATTERS has made a selection from the mines of North Wales likely to be largely profitable in respect of dividends, and with great prespects of advance in market value of shares. Full particulars from personal inspection can be had on application.

Mr. BATTERS is a BUYER or SELLER in Bryn Gwlog, Herward, West Bryn Gwlog, Brynford, North Minera, and Silver Rake, &c., at close market prices; and is a BUYER or any number of West Bryn Gwlog shares at £24½ per share; 50 North Minera, 75. 64. prem.; 100 Great Martha, 18s.

Mr. BATTERS returned to o-day from North Wales, having during the week inspected

Mr. Batters returned to-day from North Wales, having during the week inspect he mines in the Filntshire district, and will be happy to communicate any informatic e may possess to his correspondents.

he may possess to his correspondents.

MR. GEORGE BUJDGE, 4, ROYAL EXCHANGE-BUILDINGS

IONDON, has FOR SALE:—35 East Russell; 50 Crelake; 15 Great South
Tolgus, £8½; 100 Wheal Harrieft; 5 Stray Park, £40½; 120 North Wheal Providence,
£1; 100 West Wendron, 14s.; 10 Wendron Consols, £24; 120 South Condurrow, 19s.;
100 Sigford Consols, 19s. 6d.; 5 Cargoll; 100 West Tolvadden; 55 5s.;
122 Wheal Cupid, 19s. 6d.; 100 Carnewas, 9s.; 100 Great Wheal Martha; 50 Buller and
Basset; 5 West Bryn Gwiog, £25½; 50 Nanty-1gao, 27s.; 2 Wheal Eulier; 30 Hingston
Down, £3½; 3 Bryn Gwiog, £25½; 50 Nant-y-1gao, 27s.; 2 Wheal Buller; 30 Hingston
Down, £3½; 3 Bryn Gwiog, £25½; 50 Nant-y-1gao, 27s.; 2 Wheal Buller; 30 Hingston
Down, £3½; 3 Bryn Gwiog, £25½; 50 Nant-y-1gao, 27s.; 100 Feat
Carndon; 30 Wheal Edward, £2; 100 East Budnick, 10s. 6d.; 100 East Grenville, 17s.;
100 West Frances, 9s.; 50 North Miner; 3 West Carndon, £7½; 10 Merllyn, 22s. 6d.;
150 Wheal Arthur; 25 North Busy; 50 Mill Pool, 30s.; 25 Camborne Vean; 30 Alfred
Consols, £34½; 1 Dolcoath; 25 Great Wheal Busy; 25 East Carn Brea; 150 South Buller
and West Penstruthal, 15s.—WANTED an OFFER for 15 Trolyon.

MESSRS. VIVIAN AND REYNOLDS, 68, OLD BROAD STREET, LONDON, E.C., MINING ENGINEERS, INSPECTORS of MINES, COMMISSION, and GENERAL AGENTS for the PURCHASE or SALE of MINE SHARES, RAILWAY, and EVERY OTHER DESCRIPTION of STOCK.

Commission on share transactions, 1½ per cent. on £100 and above, and 2½ per cent. for less sums.

2, Adam's-court, Old Broad-street, January 25, 1861.

MR. C. POWELL, MINE SHAREBROKER,

2, SPREAD EAGLE COURT, FINCH LANE, LONDON, E.C.

C. Powell informs his friends and the public that the situation of his office (adjoining the Mining Exchange) enables him to act promptly on all orders confided to him, either by post or telegraph; and begs to assure those who may favour him with business on commission, or at nett prices, that his best endeavours shall be used for their interest.

SHARES FOR SALE at netter prices:—

20 Bottle Hill, £1 6s.

20 Bryn 6wios, £25.

10 Bryntail, £4\close{1}.

20 Horlyn, £1 9s.

10 Carls Brea, £97\close{1}.

20 Cock's Kitchen, £19\close{1}.

10 East Carndon, £11\close{1}.

50 Now Wh. Francis, 10s.

10 Pendeen Cons., £5\close{2}.

10 East Carndon, £11\close{2}.

10 Fordence, £45.

10 East Carndon, £11\close{2}.

20 Stortidge Cons., 12s. 9d.

11 Wheal Clifford, £207\close{2}.

12 Wend Con., £12s.

13 Wheal Margaret, 57\close{2}.

23 Stry Park, £41.

24 Stry Park, £41.

25 Wheal Nichon, £1 2s.

26 Wheal Norris, £1 2s.

27 Stry Park, £41.

38 Wheal Margaret, 57\close{2}.

28 Wheal Nichon, £1 2s.

29 Wheal Norris, £1 2s.

20 Wheal

Jan. 25, 1861. Bankers: City Bank, Finch-lane.

DWARD COOKE, MINING SHAREBROKER, &c., 5, HERCULES PASSAGE, THREADNEEDLE STREET, LONDON, E.C., in thanking his friends for the liberal support they have accorded him, begs to assure them of his intention to adhere strictly to the principles which have been observed by him—viz., promptness and punctuality in all transactions committed to his charge, and the best attention to the interests of his clients. A list of eight mines has been selected with proper care by the advertiser, which he has no hesitation in recommending to his friends as being more than ordinarily safe for an investment, or with a view to a realisation of profits in a short time.

The following SHARES are FOR SALE, at nett prices:—50 New Francis, 10s.
2 Stray Park, £41½, 10 So. Carm Brea, £3%. 10 East Russell, £7%, 10 West Fowey, £2 ibs. 20 Gt. Retallack, £2 ils. 10 East Russell, £7%, 10 Tincroft, £6. 3 North Busy, £5. 5 East Caradon, £11%, 10 Tincroft, £8. 3 North Busy, £5. 5 East Caradon, £11%, 10 Tincroft, £8. Son Son Condurrow, 19s. 10 Figs. 10 Figs.

Jan. 25, 1861. Bankers: Commercial Bank, Lothbury, E.C.

MR. R. H. M. JACKMAN, MINING AND SHAREBROKER, 2, ADAM'S COURT, OLD BROAD STREET, TRANSACTS BUSINESS IN EVERY DESCRIPTION of SHARES, at closest prices nett, or on commission, but not being a dealer buys and sells only on orders confided to him.

SHARES FOR SALE, free of any commission:—

2 Wendron Cons., £23\%, ex div.

15 Catherine & Jane Consols, £1.

50 Vale of Towy, 9s. 9d.

15 Lady Bertha, £9s.

5 East Russell, £7\%.

16 Seller and Bertha, £2.

Jan. 25, 1861.

4 Rosewarne Cons., £1.

50 Vale of Towy, 9s. 9d.

5 East Russell, £7\%.

8 So. Condurrow, 17s. 66

Bankers: London and Westmit

T. ROSEWARNE, SI, OLD BROAD STREET North Trolawny, 10s. North Robert, 27s. 6d. North Tineroft, 25 18s 9 Pendeen, 25%. Sortridge, 12s. 9d. Stray Park, £41. Wheal Arthur, 6s. Wheal Edward, 38s. 6d. Wheal Norris, 22s.

MR. T. ROSEWARNE, 81, OLD 1

Bedford United, £6.
Bryn Gwlog, £35.
Bedford Consols, 4s.
Crelake, £31/6.
Calstock, £1/4.
Drake Walls, 16s.
East Carndon, £11 11s 3d.
East Carn Brea, £7 12s 6d.
East Russell, £7 10s.
North Downs, £3 17s. 6d.
And is a BUYER of the following shares, at market prices Bedford Consols, 4s.
Crelake, £3.4.
(6s. call paid),
Calstock, £14.
Drake Walls, 16s.
East Carndon, £11 11s 3d.
East Carndon, £1 11s 3d.
East Carn

MR. BIRDSEY, MINING BROKER, ST. MICHAEL'S HOUSE, ST. MICHAEL'S ALLEY, CORNHILL, in returning thanks to his numerous friends who have patronised him for the past 32 years, begs to assure the public that he is always in a position to TRANSACT MINING BUSINESS at the closest market prices; and from his long experience of the districts of Cornwall, Devon, &c., is able to name some six or eight mines in which there will, in all probability, be a great advance of price in a very short period.

E O R G E M O O R E,
GEORGE MOORE WILL SELL the following SHARES, or any part, to-day, at quoted
10 Aifred Consols.
20 Holmbush, £25%.
10 East Caradon, £317s, 6d.
20 East Wheal Russell,
20 East Wheal Russell,
21 S Great Aifred, 22s.
10 Hings Down Con., £274.
25 Great Aifred, 22s.
10 Hings Down Con., £274.
26 Great Aifred, 22s.
10 Hings Down Con., £274.
27 Hs. 3d.
28 Great Aifred, 22s.
10 Hings Down Con., £274.
28 Great Aifred, 22s.
10 Hings Down Con., £274.
29 Horse Secondary Secon

5 Bryn Gwiog, £35. 5 West Bryn Gwiog, £26. 5 Silver Rake, £20.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHARE DEALER, 11, DALE STREET, LIVERPOOL.

MINING QUOTATIONS, AND "SO-CALLED" MINES.—
The daily and weekly prices of shares put forward in the public prints are, as a rule, a perfect farce, and emanate from jobbers and dealers, to dupe and mislead the unsuspecting. Capitalists will, therefore, do well to seel: reliable information and sound advice.—H. B. Rve, 77, Old Broad-street, London, E.C.

Established 18 years in the same office.

Bankers: Sir J. W. Lubbock, Bart., and Co.

TO CAPITALISTS AND THE MINING PUBLIC.—The following "sound" and "respectably-conducted mines" should be invested in for early and large dividends, the approach of which will cause a great rise in the value of shares, viz.

Botallack. United Mines. Ding Dong.

Botallack. United Mines. Ding Dong.
Grambler. Cargoil. North Roskear.
Rosewarne United. Clifford. Wheai Seton.
Tincroft. Kitty (Leiant). Bryntail.
For correct prices and reliable particulars apply to Mr. H. B. Rvz, 77, Old Broadstreet, E.C.
Bankers for the last 20 years: Sir J. W. Lubbock, Bart., and Co.

REDERICK WILLIAM MANSELL, MINING OFFICES, 1, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C. Bankers: London Joint-Stock Bank.

MR. FRAS. G. LANE, MINING SHAREDEALER,
44, THREADNEEDLE STREET, LONDON.
Bankers: London and County Bank.

Ding Dong. North Roskear. Wheal Seton.

JOHN ROBERT PIKE has FOR SALE, at NETT PRICES, the following SHARES, all calls paid:—

50 Bedford Consols, 4s. 9d. 4 Bryn Gwice, £55. 50 Greavenor, 10s. 30 Hings. Down, £2 9s. 9d. 40 Ceft Clicen.

10 Ciligha hand Went., £4½. 100 Lady Bitza, 8s. 9d. 10 Cook's Kitchen, £19. 100 Lady Bitza, 8s. 9d. 10 Cook's Kitchen, £19. 100 Marke Valley, £4 6s. 3d. 100 Dale, £3%. 50 Werliyn, £1%. 9s. 40 Ornake, £3%. 50 Werliyn, £1%. 9s. 40 Ornake, £3%. 50 Werliyn, £1%. 10 Pale, 5s. 9d. 10 Marke Valley, £4 6s. 3d. 100 Dale, 5s. 9d. 10 Worth Robert, £1 5s. 6d. 100 Dale, 5s. 9d. 10 Worth Robert, £1 5s. 6d. 100 Dale, 5s. 9d. 10 Worth Robert, £1 5s. 6d. 100 Dale, 5s. 9d. 10 Worth Robert, £1 5s. 6d. 100 Dale, 5s. 9d. 10 Worth Robert, £1 5s. 6d. 100 West Wordron, Ils. 3d. 100 Gernick, Ils. 6d. 40 East Caran Brea, £7%. 10 Pelyn Wood (an offer wanted). 2 Rosewall Hill, £2 1s. 6d. 100 Gernick, Ils. 3d. 100 Sortridge, 12s. 9d. 10 When Seton, £17%. 20 Great Alfred, £1 1s. 3d. 100 Sortridge, 12s. 9d. 10 When Vared, £1 1s. 3d. 100 Sortridge, 12s. 9d. 10 When Vared, £1 1s. 3d. 100 Sortridge, 12s. 9d. 10 When Vared, £1 1s. 3d. 100 Sortridge, 12s. 9d. 10 When Vared, £1 1s. 3d. 100 Sortridge, 12s. 9d. 10 When Vared, £1 1s. 3d. 100 Sortridge, 12s. 9d. 10 When Vared, £1 1s. 3d. 100 Sortridge, 12s. 9d. 10 When Vared, £1 1s. 3d. 100 Wh JOHN ROBERT PIKE has FOR SALE, at NETT PRICES, the

MR. J. HUME'S "MINING SHARE MONITOR," published monthly in parts. The soundest advice to capitalists. None but the best description of mining shares are noticed. Valuable information contained in that for Jan. 30 Subscriptions, 5s. per annum; single copy, 6d.

Bankers: London Joint-Stock Bank. RICHARD CLIFT, MINE SHAREDEALER, late of Redruth, now 48, THREADNEEDLE-STREET, LONDON, where all letters are to be addressed.

MR JOSEPH GREGORY, MINING OFFICES, 1, BANK CHAMBERS, LOTHBURY, E.C.
BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES.
Terms, 1½ per cent. on £100 and above, 2½ per cent. on smaller sums.
Bankers: City Bank, Threadneedle-street.

10 East Caradon, £11½.
5 Great So. Tolgus, £8.
10 Rosewall Hill, £2½.
30 Wheal Cupid, 19s.
10 Harriett, 39s. 6d.

MESSRS. R. HORLEY AND CO., SWORN STOCK, SHARE, and MINING BROKERS, 45, CORNHILL, E.C. (late of 2, Royal Exchange-buildings), continue to TRANSACT EVERY DESCRIPTION OF MINING BUSINESS, and are in a position to obtain reliable information respecting all dividend and progressive mines. ressive mines.

N.B.—Mesers. Horley and Co. publish a Weekly Mining List, with the closing prices, very Wednesday, and will be most happy to forward the same (gratis) on application.

MR. STEPHEN HUNT (late of the Mines Royal Copper Company, Upper Thames-street, London) is OPEN to an ENGAGEMENT.—Address, care of Thomas Pollock, Esq., 129, Fenchurch-street.

HARES POSITIVELY FOR SALE, AT NETT PRICES:

20 Crebor, 9s.

2 Trelawny, £17%.

50 Sortride Cons., 12s. 6d.

5 Trevenen and Tremenheere £2%.

Apply by letter, to Mr. Leicester, Post-office, Throgmorton-street, London.

JOHN GLEDHILL AND CO., MINE AGENTS AND SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS.

MR. MURCHISON'S REVIEW OF BRITISH MINING-FOR THE QUARTER AND THE YEAR ENDING 31st DEC., 1860, is NOW READY. Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.

WHEAL BULLER.—An ACCOUNT of the state and prospects of this mine APPEARS in Mr. MURCHISON'S REVIEW, PURLISHED DAY.
Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.

PROSPER UNITED.—FULL PARTICULARS of these valuable mines, and of the progress made since the commencement of operations found in Mr. MURCHISON'S REVIEW OF BRITISH MINING FOI QUARTER AND YEAR ENDING 31st DEC., 1860. An important discovery just been made, of which particulars are also given.

Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.

MESSRS. THOMAS PENROSE and THOMAS PRICE UNDERTAKE ASSAYS and ANALYSES OF EVERY DESCRIPTION OF MINERAL PRODUCT, FUEL, and MANURES, at Messrs. Richardson and Co.'s Assay Office and Laboratory, Copper Ore Wharves, Swanses.

ay Office and Laboratory, Copper Ore Wharves, Swansea.

FIFTEEN to TWENTY, and even TWENTY-FIVE PER CENT. PER ANNUM upon current value of shares, in CORNISH TIN and COPPER MINES.

Dividends payable two-monthly or quarterly.

MESSRS. TREDINNICK AND CO., MINING ENGINEERS, SEND their SELECTED LIST OF SOUND PROGRESSIVE AND DIVIDEND SHARES upon the receipt of a Fee of One Guinea.

Review of Cornish and Devon Mining Enterprise, 5s. per copy.

Maps per post of the Buller and Basset, Great Yor, Alfred Consols, the Providence and Margaret Districts, 2s. 6d. each.

Cornish Mines, well selected, pay better than any other description of securities, are free from risks, and entail less responsibilities than banks and other joint-stock companies. Shares bought and sold on commission of 2½ per cent.

Money advanced at 10 per cent. annually, for short or long periods, upon approved Mining Shares.—78, Lombard-street, London, E.C

THE MIDLAND IRON COMPANY, ROTHERHAM, MANUFACTURERS OF BEST "YOBESHIRE," and of STEEL IRON TYRE BARS, for LOCOMOTIVE ENGINE, CARRIAGE, and WAGON WHEELS. Also of REFINED, SCRAP, STEEL IRON and "YORKSHIRE" BARS, HOOPS, RAILS ANGLE IRON, MALLEABLE SHAFTS, AXLES and FORGINGS.

C H A R L E S D A V E Y A N D C
SAFETY FUSE MANUFACTURERS,
ST. HELEN'S JUNCTION, LANCASHIRE. AND CO.,

Original Correspondence.

ON "SUDDEN ISSUES" OF LARGE AND UNCONTROLABLE

ON "SUDDEN ISSUES" OF LARGE AND UNCONTROLABLE.
QUANTITIES OF EXPLOSIVE GASES IN COAL MINES.
Sin,—In the North of England the cases in which this has occurred, and
which have been published, have been principally from the description of coal
generally found in contact with faults. It is generally found in deep and
tender seams of coal; that the coal which is adjacent to faults is very tender,
and is called "danty," or hitch coal. This often extends to very considerable distances, and is found to abound in gas, very large and unusual
quantities being found to issue into workings passing through it. This generally found in contact was assisted and selected proper to the coal which is adjacent to faults is very tender, and is called "danty," or hitch coal. This often extends to very considerable distances, and is found to abound in gas, very large and unusual quantities being found to issue into workings passing through it. This state of the coal is unquestionably a consequence of the fault. The coal has been crushed, or otherwise affected through this influence, so that the gas has either become disengaged; or that its disengagement in working has become freer, and with less than the ordinary obstruction. That it has in some measure become disengaged is proved by the fact that where such cases occur in connection with a sandstone roof blowers are more numerous and of much more frequent occurrence than under ordinary circumstances. Not unfrequently the fissures of the faults are very open, but much more so with a sandstone roof; and when pierced very considerable discharges of gas have taken place, very often accompanied with considerable feeders of water. From the combined action of water and gas pressure, the discharge of gas after the first piercing of the fissures becomes intermittent. The quantity of gas discharged is also subsequently very materially affected by the changes of atmospheric pressure, so that when the barometer suddenly falls the issue of gas is augmented. That a very considerable proportion of the gas, up to the time of piercing this danty coal, has continued entangled in the cellular tissue of the coal is, I think, clearly proved from the fact that the coal is much more tender to work, even in many cases becoming separated merely by the action of the gas; and the discharge of gas is very much more considerable while driving the first places through it than is found to be the case with drifts subsequently required. The coal and strata being found to be hardened, or during the working present at least such appearance, even to a very considerable distance. Even in such cases its very unusual t

t, and that the persons is ameable for such results.

out, and that the persons in such cases responsible are properly liable and blameable for such results.

In working by the "long-way system," it is usual to win out the coal in a water level direction, more or less approaching the direction of the cleavage of the coal, or by headings parallel to such cleavage; the stalls being subsequently driven in a direction at right angles to the cleavage. By this mode of proceeding faults running in a line approximating to the cleavage of the coal may never be met with until approached by a very considerable extent of the ordinary face of coal work. To any person of experience in coal mining this will have been found to be the case. It will thus be seen that the faulty coal may in a single day be exposed for a considerable length by the ordinary coal workings, and that such workings will be exposed in the worst possible manner to the worst effects of large and sudden issues of inflammable gas. These effects will necessarily be aggravated by the mode of ventilation caused by such way of working. The splits, or different currents, are not so numerous as in bord and pillar working, and from their arrangement it is quite possible that a large issue of gas taking place in a limited time, so as to render the current explosive, may pass onward in a body with the current of air in an undiluted state to the ventilating furnace. This, with other considerations, makes it necessary in all cases of long-way work to pass the return currents into the upcast without their going over the furnace; the furnace in such case being supplied with fresh air which has not been used for ventilation which has not been found necessary in colliery workings. It is a plan of ventilation which has not been found necessary in colliery working by the bord and pillar system, and which has, consequently, been abandoned in the North of England for many years. If such a fault as has above been supposed to be met with has been previously unknown, which is not at all an improbable supposition, the place of meeti In working by the "long-way system," it is usual to win out the coal in

It will thus be seen that, in addition to the gas due to the seam, you have that existing in over and underlying seams and strata, within cer-

have that existing in over and underlying seams and strata, within certain limits, to contend with, while prosecuting pillar working, or the entire removal of the coal by any other plan. The whole of this gas naturally ascends into and completely fills up all spaces in the upper portions of the goafs above the level, and beyond the reach of ventilating currents or of observation. This, of course, is the case whether the mode of working is the bord and pillar, long-way, or any other system of working.

When the measures immediately overlying the coal in course of being worked are of such a character as to fall freely to the distance of a few feet upwards, and are then succeeded by very strong stone, which will continue unfallen or unbroken for some length of time, a very extended open space, wherein gas in very considerable quantities will accumulate, is provided for its reception. In continuing to prosecute the workings, it is found that this strong stratum eventually gives way, and falls, or suddenly settles down over large areas (it may be acres), pressing out the gas suddenly, and in overpowering quantities, in a very limited time, into the adsettles down over large areas (it may be acres), pressing out the gas sud-denly, and in overpowering quantities, in a very limited time, into the ad-jacent workings from the spaces above described. If the workings are prosecuted to the rise of such goafs, as is almost universal in long-way work, it is impossibe to conceive works worse situated for contending safely with these issues of gas. es of gas.

with these issues of gas.

Another effect of strong overlying measures continuing a considerable length of time unfallen and unbroken over large areas, is to increase very considerably the weight resting on the pillars or face of unwrought coal, and thereby producing in pillar work what is technically and locally called a creep—the upheaving, succeeded by the fracturing, of the thill or floor

of the seam. Mr. Buddle found at Wallsend, upwards of thirty years ago, that a creep in the High Main seam upheaved and bodily dislocated the unwrought solid coal of the Metal Coal seam, laying 30 to 40 feet below, to the extent of 18 inches displacement, at both sides of the crept bordrooms in the High Main seam above. This is a very usual and natural effect, and the result often is that large quantities of gas in such cases suddenly issue into the adjacent workings, if such be improperly situated to the rise. But it is never for a moment supposed that the gas issuing was the cause of the creep, but rather a natural effect of the same.

How often have we those creeps and disturbances of the goafs, with every circumstance, as in the cases of gas eruptions described by Mr. Brown, except these very eruptions themselves. If we often have these rendings of the floor and settlings of the goafs without a particle of gas, is it most reasonable to attribute them in other cases to the "sudden issue" of gas, or to consider the gas as a natural result or effect, not their cause?

of the floor and settlings of the goafs without a particle of gas, is it most reasonable to attribute them in other cases to the "sudden issue" of gas, or to consider the gas as a natural result or effect, not their cause? In prosecuting long-way workings on the line of the inclination of the strata, it is generally found that the gateways for a few yards from the face present the appearance of flatness; this is unquestionably the result of pressure on the face of the coal, upbending the thill or floor. In case of a combination of circumstances—the strength of the superior measures, a few feet above the seam of coal, causing the same to stand unbroken, unfallen, and unsettled over a large area in the first instance—a strong seam of coal, presenting a firm and unyielding resistance to the pressure, causing an uprising of the thill or floor unbroken for a considerable extent and area, permitting the accumulation of gas in the open spaces of the goaf above, and in the disturbed measures below, be followed by the floor in the immediate vicinity of the coal giving way or creeping, lifting, and rending, the natural consequences must be a large and "sudden issue" of gas from the measures beneath, and probably likewise from those above at the same time, thus producing a "sudden issue," such as no "amount of ventilation that can practically * * be passed through the workings" would dilute. But this is no proof that the "gas issues from beneath the coal with such violence as to rip up the floor * * several feet in depth and many yards in length," as stated by Mr. Brown in the Mining Journal of Dec. 29, 1860; but rather that the floor was ripped, and the fissures caused as the natural result of the mode of working the coal, and the previously freed gas was thus liberated from the position in which it had accumulated in the disturbed measures beneath and above; that, in fact, the "sudden issue" of gas into the workings was an effect, not a cause, of the disturbance of the measures.

We may easily conceive in a floor "enorm

rauseu, quite suncient to account for "enormous issues." If the quantity of air in circulation was 10,000 cubic feet per minute, 1000 cubic feet of gas would render it highly explosive for one minute. One superficial acre of only the third part of an inch thick would yield this amount of gas; 6 inches thick would yield 18 times as much, and if extended over 10 times the areaviz., 10 acres (no improbable supposition under certain ordinary circumstances in a mine)—would yield 180 times as much, accounting at once, in a perfectly rational and probable manner, for the most "enormous issue" ever recorded, the circumstances of its issue being most pavourable for such effect. In working coal by the long wall in measures of considerable inclination, all the workings areired on on the extreme rise, edge, and highest points of the wholly excavated portions, the ordinary daily workings are at once liable to all the gas arising from the coal face, all that drains from the goafs, and all that may accumulate in the highest levels of such goafs, when pressed into the "wall face" by a sudden settling of the strata over extensive areas, and also to that which may be pent up in the disturbed strata beneath, on yielding to the pressure incumbent on the surrounding coal, thus discharging the accumulated gas in the worst possible position, thus causing one current of air to have to contend with what would be the duty of several in properly arranged bord and pillar workings.

I also think Mr. Brown is under some considerable mistake in saving

I also think Mr. Brown is under some considerable mistake in saying I also think Mr. Brown is under some considerable mistake in saying the quantities of gas discharged were such as that no obtainable current of air could properly dilute. His own statement that the Davy lamp continued to burn, furnishes a measure of the gas issuing, I recommend this to his consideration. This long-way method of working, with its natural results of issue of gas, arrangement of ventilating currents and safety-lamps, is evidently cording to the practice, as stated by Mr. Brown, solety dependent for its safety or the perfection and proper attention in the use for the safesyting and proper attention in the use for the safesyting.

cording to the practice, as stated by Mr. Brown, solely dependent for its safety on the perfection and proper attention in the use (or the self-extinguishing) of the safety-lamps; such a state of things as assuredly will sooner or later produce a catastrophe.

M. E. P.S.—Mr. Brown, in the Mining Journal of Jan. 12, gives expression to a doubt; I will do so to a fact—that "M. E." has been a mining engineer practically and responsibly employed in several collieries, before Mr. Brown was out of his apprenticeship, up to the present time.

M. E.

SAFETY-LAMPS.

SAFETY-LAMPS.

Sin,—The remarks of Mr. Waring in the Journal of Dec. 22, that had I tried I could have opened the Mozard lamp as easy as the one of his construction, induced me to try, when I found that, contrary to my expectation, and to what I had been lead to believe, his statement was quite correct, and I was able to open the Mozard as easily as the Waring; but I cannot agree with "A Collier" in awarding the preference to the Waring, for I do not consider that under any circumstances the arrangement of the Waring lamp can give security, because of the command over the wick by means of the wick-wire, independently of the locking apparatus, placed in the hands of the workmen. In the Mozard this is different, and the elevation of the wick depends on the apparatus for unlocking the lamp. If, then, the turning of the wick-wheel in this lamp can be prevented when the wick-wire is brought over the wick-holder, either for the purpose of cleaning the wick or of holding it while the lamp is unlocked, the Mozard becomes then a self-locking lamp, which must be extinguished before it can be opened. I place the wick-wire immediately behind the wick-wheel, and over the tube through which it passes I place another closely fitting tube, to which a segment of an inner tooth-wheel is attached, which locks in the wheel when pressed down upon it, and prevents it moving either way, leaving it free to move when disengaged from it.

If, then, the outer tube be bevilled on the top part under the wick-wire, so that when the wire is back against the glass it is raised by means of the spring, and the wheel may be freely moved in either direction; but if the wick-wire be brought forward to any other position, the outer tube will be forced down by means of the wick-wire pressing on the inclined plane until the segment locks into the wheel, thus effectually preventing its action, and, consequently, all tampering with the wick, a result which I consider cannot be obtained in lamps on the principle of the Waring.

Should you consider my su

llow-workmen to a premature grave.

Academy, Myrtle-street, Liverpool, Jan. 16.

[A somewhat similar, but less complicated, arrangement was proposed to us by a French mining engineer, who came to this country some months since to patent his improvement, could we have given him any hope of being remunerated for his trouble. His suggestion was to fix the second tube to the upper part of the wick-wire, and then to fix a hub upon this outer tube, consider the rack-wheel. This hub consists. If we Its suggestion was to he are second to the rack-wheel. This hub consists, if we may so explain it, of a continuous ratchet on three parts of its surface, the remaining part being cut away to permit the wick-wheel to revolve freely. Whilst the wick-wire is back against the glass the wick-wheel can revolve freely, but the slightest movement of the wick-wire causes the ratchet on the hub to take into the wick-wheel, and prevent the withdrawal of the locking boit.—ED. M. J.]

SAFETY LAMPS-THE STEPHENSON AND THE DAVY.

Sir.—I do not agree with Mr. John Brown's opinion concerning the tephenson lamp; indeed, I think them unsafe to a certain degree. In he first place, what would a viewer, or any officer, do if he were to travel vith a Stephenson in the waste or old workings? As soon as ever he gets mongst the gas his lamp goes out. Perhaps he has never been in these dd workings before; but, even if he had been in them, there may since law been falls and waste andeas he goes in he finds that something is amongst the gas his lamp goes out. Fernans no amongst the gas his lamp goes out. Fernans no law workings before; but, even if he had been in them, there may since have been falls and waste, and as he goes in he finds that something is wrong, and desires to see what is the matter. He has, perhaps, travelled over falls which he could just get through, and has likewise observed that more stone is on the point of falling; he goes on, however, until he comes to a close fall that is stopping the ventilation. Here the gas having accumulated the lamp goes out, and he is left in a frightful plight. He must return over the falls and under the bad stone; and as one cannot travel in the dark without touching something, he would be very liable to bring the stone down upon him.

bring the stone down upon him.

But if he have a Davy lamp the case is different. When he gets to where the gas has lodged the Davy lamp shows its presence, and he beats a retreat, and can see where he is travelling. The Stephenson is

very well where we fall in with very many blowers of gas, and when a man is working in the whole. I have seen these come out from under man is working in the whole. I have seen these come out from under the coal a distance of 3 feet, and burst the coal away. When a miner is working in the whole he can find his way out, but the broken begets gas, out goes his lamp, the place is rending above him, timber is breaking on all sides, and the timber is set in every direction: he gets the wrong side of the timber, and he may be killed there. As another case—Suppose a man or two working in the waste with a Stephenson, and the gas to come out, it is said that if his lamp has got damaged it will then be as good as a Davy. This may be true in some cases, but certainly not in all; for most of the misfortunes happen through carelessness of the miners, or from something being done unthinkingly. There are some very careful men amongst colliers, no doubt; but I think that if Mr. J. Brown has any men under him they would be glad if he gave the matter that due and serious consideration it deserves, and, perhaps, he would then after his opinion.

Durham.

THOMAS DAKERS.

VENTILATION FANS.

VENTILATION FANS.

Sir,—In reply to Mr. Nasmyth's letter in the Journal of the 19th inst., I beg to inform him that I have no occasion to refer to the publications he mentions, as I never disputed the fact of his having invented a fan, of its having been at work at the ironstone pit at Skyar Spring for the last nine years, nor of his having forwarded descriptions of it to various publications. But, I again repeat my "very absurd statement," that "the fans used at Elsecar are quite different from Mr. Nasmyth's illustration," and of which he is well aware—these having the blades placed obliquely, or at an angle, between the radial and tangential lines, whereas the blades of Mr. Nasmyth's fan, as shown in his illustration, are placed in a line with the radius, similar to an ordinary smith's blast-fan, or the floats of a common paddle-wheel. This Mr. Nasmyth calls as close an approximation as possible, which I deny, the difference being obvious to any practical man who may have seen the two fans at work; for, as will be at once seen, the blades of the latter will strike the air with the flat surface, and will carry a certain amount of air round with them at every revolution, instead of throwing the whole off. Whereas, by placing the blades obliquely, so that they cut the air in the same manner as those of a screw, the resistance or friction of the air will be so much diminished that far more revolutions of the fan per minute may be obtained with the same amount of power, and not only this, but each revolution, will draw more air, as it is impossible for any of it to be forced back into the fan, or carried round by the blades.

Since Mr. Nasmyth objects to this being called an improvement on the screw, by all means call it an improvement on the Nasmyth fan, and no one can deny that it is such; and acan if the can argent that he ages contrived.

Since Mr. Nasmyth objects to this being called an improvement on the screw, by all means call it an improvement on the Nasmyth fan, and no one can deny that it is such; and again, if he can prove that he ever contrived, designed, made, or set to work a fan on this principle previously to the late Mr. Biram doing so, I am ready to acknowledge that I have done him an injustice, but not that I have written in a "scurrilous spirit," as he asserts. I may say, with Mr. Nasmyth, that I have no pecuniary interest in this question, being simply desirous of obtaining justice and fair play. I see, in the Journal of the 12th inst, that a "Looker-on" makes an assertion that Mr. H. Hartop is the inventor of these fans. What does Mr. Nasmyth say to this?—St. Helen's, Lancashire, Jan. 23.

B. BIRAM.

COLLIERY ACCIDENTS-INSURANCE.

COLLIERY ACCIDENTS—INSURANCE.

SIR,—Will "M. E." turn to the "Transactions of the North of England Institute of Mining Engineers," vol. iii., page 94, and he will see a greater quantity of air than I have stated. Perhaps Mr. Nicholas Wood, the managing partner of the Hetton Colliery—the colliery referred to—will answer his other queries as to splits, &c. Will he allow me to ask him why a current of 200,000 cubic feet cannot be sent through one seam, or say, for instance, through Risca Colliery? I have already said that it can.

It is pleasant to think that Mr. Brown does not put his trust entirely in discipline and Davy lamps. I dare say a little more discussion would have shown that our views as to ventilation were similar, and that we agree in all things, and even he would believe I am "A Pitman."

I notice in the Journal that the owners of the Hetton Collieries are providing for the widows and children of those killed at the late explosion there. I do not notice this for the purpose of suggesting that my letters had anything to do with that decision, but simply to show the views of enlightened people in the trade on the question, and to say to others to go

had anything to do with that decision, but simply to show the views of enlightened people in the trade on the question, and to say to others to go and do likewise; and if I am right in my calculations, which are open to correction, the means of alleviation are, even in the present high ratio, not so unapproachable as at first sight would appear.

I hope, therefore, to see ere long every coalmaster providing by insurance for these catastrophies, and that the best talent will be employed, and the most complete remedies adopted, as the only means of reducing the premiums.—Jan. 17.

A PITMAN.

COLLIERY ACCIDENTS-INSURANCE.

Sir,—Following up my remarks of last week, I may state that supposing almasters were making use of the Accidental Death Insurance Company, ow existing, I can easily see a simple mode of operation. The coalmaster commissers were making use of the Accidental Death Insurance Company, now existing, I can easily see a simple mode of operation. The coalmaster would pay premiums on the number of men he has employed at the time, and at the end of six months the average number which have been in the colliery during that time can be arranged, and the excess paid or returned, as the case may be. There would be no necessity for insuring each individual—only the number. I do not see how such an arrangement could be objected to

be objected to.

While insurance can do so much for the masters, how much it might benefit the miner himself. Suppose every collier injured, no matter how, had, by payment of little more than 1s. a week, provided pecuniary relief for himself and family, what a comfort it would be to him on his sick bed, to see himself and family beyond the reach of want. How different it fares with many of them now; and while I have called upon the masters to do their part, I would urge equally on the miner himself to be up and doing. Heaven helps those who help themselves; they must not think everything will be done for them—they must do something for themselves; I have shown them the way, and it is open for them.

A PITMAN.

Jan. 17. Jan. 17.

IRON MANUFACTURE.

Sir,—Several announcements have appeared recently in your excellent Journal, relative to great patent improvements in the manufacture of iron, upon which I would beg permission to make a few remarks, not disputing that some advantages would result from the application of additional carbon, both in the blast as well as the puddling-furnace, but the sweeping nature of the claims for such purposes. In the Journal of the 12th inst. there is an extract from the patent of Mr. George Holeroft, of Manchester, for "forcing carbon in a gaseons state into the lower part of the furnace with the hot or cold air," &c. Does Mr. Holeroft mean what is termed vapour of carbon? if so I will agree with him as to an improvement taking place in the "quality of iron produced;" but if he means carbon composed of oxygen or hydrogen, then I suspect his patience will be exhausted a very long time before he effects, by his patent process, any improvement in the "quality of iron produced." The introduction of charcoal at the tuyeres of blast-furnaces will certainly improve their working, but the same effect would be produced were the same amount of fuel introduced with the charges of ore and flux at their tunnel head. Mr. Holeroft also says that "the quality of iron is considerably improved by introducing charcoal among the iron in the puddling-furnace, when the iron is in a molten state;" this I will admit to be true, but not new by any means, as may be seen on reference to my "Metallurgy," pp. 239–242. As to Mr. Holeroft's invention of mixing various descriptions of ores, possessing different qualities, in certain proportions, so as to obtain very strong pig-iron from the blast-furnace, it would appear that he must have had very little experience in the trade, and very little knowledge as to the second of patents for improvements in the manufacture of iron, or he never would have gone to the expense of patenting the inventions set forth in the extract here referred to. Sir,-Several announcements have appeared recently in your excelwould have gone to the expense of patenting the inventions he extract here referred to.

the extract here referred to.

Then, again, in the Journal of the 19th inst. appears Mr. John Onions's

"patent process for manufacturing iron," consisting of the "introduction
of charcoal, and any other materials, in every shape, quantity, or quality,
near the bottom of the furnace, with or without the blast." The patentee asserts "that he can, by his process, improve the value of ordinary in 30s. per ton." If such be really the case, Mr. Onions's help is sadly need in the iron districts of this neighbourhood, even if his "improvements extended to the value of only 20s. per ton. However, to proceed: this patentee proposes "to apply at the tuyere, or other suitable part or parts of the blast or other furnace, the smoke, heated air, and other inflammable gases, produced from fires of any kind robatever, one or more, or all of them." Here let me pause awhile to contemplate the immense saving to ironmasters that may, according to Mr. Onions's proposals, be effected, were the smoke, heated air, &c., of their puddling-mills and forges to be thus economically applied. But to proceed: this patentee also "prepared

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or all of effected, ges to be prepares inel of any combustible kind whatever, so as to apply it at a high temperature, in the shape of smoke with heated air, and other inflammable gases [shades of Mr. Detmold and of poor Mr. Heath, rest in peace, and fear no danger from these imitations of your excellent plans of applying gas fuel in the manufacture of iron and steel], produced from any kind of five whatever" (query, copper smoke?); and in conclusion, Mr. Onions observes that, "By making use of the heated air, gases, smoke, and other volatile products proceeding from the boiler, furnace, and other fires, it is supposed that the necessity for an apparatus for heating air purposely, or the heating apparatus for what is called the hot-blast, will entirely, or at least in a great measure, be dispensed with," &c. From the multiplicity of patents taken out for "improvements in the manufacture of iron," it would be now almost impossible to put a furnace in blast without infringing the claims of some patentee or another. Let them go on, however, and prosper, if they can.

of patents taken out for "improvements in the manufacture of iron," it would be now almost impossible to put a furnace in blast without infringing the claims of some patentee or another. Let them go on, however, and prosper, if they can.

A few months ago a letter of mine appeared in the Journal (page 262), "On the Ticklish State of the Welsh Iron Trade," as well as other communications on the same subject, in which I endeavoured to point out the immense losses which have been and are continually being experienced by the majority of the South Wales and Monmouthshire ironmasters, from driving their blast-furnaces with a black cinder, and making white and sulphury pig-iron. This is the principal cause of those masters being undersold in the markets of the country by the iron manufacturers of York-shire and the North of England. The loss of iron from working with this "black cinder" (and which may be safely put at 15 per cent. of the ore, exclusive of fuel and other furnace charges), does not stop here, but is continued in the puddling and mill processes to the extent of 15 per cent. more. Hence the Welsh masters here referred to are working against at principle, and this in opposition to everything like good business habits and common prudence. Capital, however, has its limits, like everything else, and cannot work impossibilities. In the present depressed state of the Welsh iron trade, when the ironmasters are curtailing their working charges at every possible point, down to what Adam Smith would term the "starvation scale," it may be supposed that some attention would be paid to the losses incurred by the ruinous system of producing "white and sulphury pigs and black cinder;" but such is not the case; therefore, were I to say that Mr. Crawshay Bailey (who would condescend to pick up a stray piece of iron to the value of a farthing) lost at his works at Nant-y-Glo, 6000 to 7000 tons of pig-iron a-year by this wasteful system of working; and that his neighbour, Mr. Levick, of Blaina, the Tredegar Iron Company, an

ACCIDENTS ON RAILWAYS FROM FROST

ACCIDENTS ON RAILWAYS FROM FROST.

Sir,—Permit me to inform your readers that my patented process for manufacturing iron tends to increase the fibrous character of iron, which is one of the greatest desiderata at the present moment, when accidents are so frequently occurring on our railways from contraction of the tyres, rails, &c., by the action of frost. If the iron employed in the manufacture of rails, tyres, &c., possessed more fibre, the breakage from the contraction would be proportionately less, and accidents from the influence of the frost would decrease in the same ratio. As at present manufactured, iron of excellent fibre cannot be produced without large additional expense; but by my process the extra cost would be very trifling, and a quality of iron produced superior to any manufactured by the ordinary process.

Moor-street, Birmingham, Jan. 22.

John Onions.

RAILWAY ACCIDENTS, AND ATMOSPHERIC INFLUENCE

RAILWAY ACCIDENTS, AND ATMOSPHERIC INFLUENCE.

Siz,—The fatal railway accidents occasioned by the action of the recent low temperature upon the metals, particularly the tyres of wheels, induce me to offer an opinion of the cause and remedy. I may observe that I have for many years confined my attention to the expansion and contraction of metals under various changes of atmospheric temperature, with a view to render this comparatively latent and irresistible power available to the more general uses of science. The result of my experience has led to the following conclusions:—That he extent of expansion and contraction of all metals is largely dependent upon its parity. For instance, a bar of common Welsh or Staffordshire iron will expand and contract very much more than a similar bar of the very best English or foreign iron, or German steel. It is not an unusual occurrence for a heavy straight bar of common iron to break in one or two pieces in frosty weather by a single blow from a hammer; fractures in these cases will invariably disclose the quality of the iron to be coarse and inferior, and must be highly objectionable if used for railway tyres or axies. Another necessary preaution is wanting in the manufacture of wheels composed of cast and wrought iron, which in most cases expand and contract unequally. These wheels have generally an outer rim, or wroughtiron tyro, which when applied to the axle is heated very considerably, so that in the process of cooling it may contract tightly around it. This contraction is, of course, much accelerated by intense cold; consequently a severe strain is thrown upon the outer rim of the wheel in an unequal and increased ratio, as will be evident. A wheel of 3 ft. diameter requires a: tyre 9 ft. in length. This 9 ft., of tyre is expected to resist the direct action of a 3-ft. circle, radiating from a hollow centre. It is not difficult under such circumstances to imagine why a tyre subject to this resisting force and severe tension should give way, especially if the iron be o

NATURAL OIL IN PENNSYLVANIA.

NATURAL OIL IN PENNSYLVANIA.

Sir,—In November, 1859, in the State of Pennsylvania, wells were sunk for the purpose of pumping petroleum, or rock oil, and it has been vigorously continued up to this time, many of the wells producing from 10 to 50 barrels of oil a day, and some even more. In July, 1860, in the State of Ohio, 50 miles from this city, oil was discovered, and in the short time clapsed more than 50 wells have been put in successful operation, yielding from 10 to 60 barrels, and at this time hundreds of wells are being put down.—(See Mining Journal, Nov. 10, 1860.)

This oil is being refined for illuminating purposes, for which it is excellent, surpassing in brilliancy the best sperm oil, or any other article for light known on this continent, at the same time being half the price of sperm. The oil, in a crude state, is an excellent lubricator, and many of our railroads use it, as well as other departments requiring a friction oil. The product bids fair to be very great, but the demand exceeds the supply, rad the amount of money invested is now large, and is being increased dally. I notice in Sir C. Lyell's "Principles of Geology," pages 434 and 250, that the petroleum springs are mentioned, the most important of which are found in the Burman empire, near the city of Ava, a fact but little known, only to geologists and scientific men, and the simple announcement ma.e., and the reference* leave an anxious enquiry in the minds of enquiring men. From the quantity spoken of there—400,000 hids.—It is inferred that it is appropriated to a good use, and that it is valuable as an article of commerce. Can some one, through your fournal, give in brief the origin, character, and uses of the Burman oil, how procured, quantity, and its utility as an article of use, and its importance in commerce? I will, at some future time, give you a fuller and more extended description of this branch of our commerce, and other matters of interest relating to its production, use, and probable adaptation to the wants of man.

Ho

"Syme's Embassy to Ava," vol. ii.; "Geol. Trans.," second series, part 3, page 788.

CONNORREE MINE, AND ITS MANAGEMENT.

CONNORREE MINE, AND ITS MANAGEMENT.

Sir.,—I am glad that my communications have produced an eclaircissement as to the letter signed "Honestas," in your Journal of Nov. 24. Ramour, it now appears, was not wrong in fixing the authorship on Mr. Vivian, of the Lucan Iron-works, Dublin, who at length comes upon the scene in propria persona to stand by his assertions, and to challenge me to Join him in obtaining the opinion of such men as Capt. Charles Thomas, of bolcoath, or Capt. Jas. Rowe, of Camborne, as to the commercial value of the undertaking. With the unnear respect for both the gentlemen named, and with every readiness to testify as to their well-known efficiency in the position they hold, I do not hesitate to express my conviction that neither is competent in the matter—may, more, I believe that both would decline to act, solely on the ground that they are not accustomed to mines such as Connorree. There is nothing of the kind in Cornwall—Connorree is essentially a sulphur mine. Besides, my experience shows that while a man may be eminent under certain circumstances, he may be very deficient when the general bearings are changed. I have known the best mining captains, who have been accustomed to Cornwall, completely in error in Wales and mountain districts, while those brought up in the latter are equally at sea when brought into the low countries; therefore, nothing could be more unsatisfactory than the report of a Cornish captain as to Connorree; in adifferent cort of country. However, while I thus give reasons against Mr. Vivian's absurd proposal, it is preposterous to suppose that the directors of the Connorree Company would for a moment permit such an inspection as is asked for by Mr. Vivian. The directors and Capt. Roberts—and to allow Capt. Thomas or Capt. Rowe, or any other captain, to report would be to impugn their own integrity and judgment, as well as the conduct of those they employ. If shareholders can be found to endorse the opinions of Mr. Vivian, let them come forward at the general meeti

Mr. Vivian says his views "have since been confirmed by Mr. Jas. Hollow," yet Mr. James Hollow does not, in any way, coavey this in his letter of Jan. 15. On the contrary, he testifies to Capt. Roborto's confidence in the value and resources of the mine, by admitting that "he showed us overything connected therewith," and afforded "a particular inspection of the new lode especially, and the mine in general." What more, in reason, could be desired? But who is the "eminent mining engineer in the county of Wicklow" to whom Mr. Vivian refers, and "whose report I now hold," he says? Who indeed? If his opinion be worth anything, why does not Mr. Vivian make it public. "W. J. P." asks my advice as to when he should buy or sell. I can only say that it is well to buy at the lowest and sell at the highest price, and always to repeat with a profit.—Jan. 23. W. W. M.

THE PHOENIX MINES, AND THE DUCHY OFFICIALS. SIR,-Mr. Fowler, of Prince Hall, Devon, who spent a fortune in farming upon Dartmoor, said-

A BLIGHT ON ENGLISH MINING ADVENTURE.

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SIR,—Mr. Fowler, of Prince Hall, Devon, who spent a fortune in farming upon Dartmoor, said—

The "Prince of Wales is the rain of all my crops. From his possessions the san class all day long been exhaling a vapour which will pour down destructively upon my crop of wheats, as son as the san has passed the medidan. If the Prince would only as England will produce; but by not doing so he is inflicting rule upon me; for this begin, and, "said Mr. Fowler," his my care, and is the curse of all those dermers who try to leathwale Dartmoor. The pure breach of heaven would ripen our crops, but the pestitual, and the prince of Wales is inflicting the critical Dartmoor. The pure breach of heaven would ripen our crops, but the pestitual, and the prince of Wales is inflicting the critical Dartmoor. The pure breach of heaven would ripen our crops, but the pestitual Dartmoor. The pure breach of the prince of Wales is inflicting, are Lancashire gentlemen—a county in which there is more surplus wealth for peculative enterprine, from year to year, than half the counties of England. The Phenix shareholders are a body of gentlemen, too, who were the first joineers to open up that great wealth of industry—the Liskeard Mining District. Captain James Clymo was the agent of those gentlemen at the time he met with that splendid discovery, the South Caradon Mine; and but for the enterprise of the present Phenix Company, then mining under the title of the Cornwall United Mines, no one knows how long that splendid lode would have remained dormant, as well as all the wealth dispersed through its numerous ramifications, the produce of the district. Those Phenix gentlemen shared in none of that South Caradon wealth, which they did not regret, but rejoiced at the success of others. They will not feel any pecuniary loss from the Phenix passing out of their hands, as they are not needy men; but every friend to enterprise will regret that a body of wealthy in England, is os short-sighted as to drive them fro

which stagmant hands might be made to return a large revenue, as wen as to withdraw their injurious effects from the lands of others. Recollecting, also, the numerous calls that must be made upon the nation for the present Royal Family of England, it behoves the Council of the Prince of Wales to adopt a course more in unison with the ideas and spirit which actuates the general conduct of the Prince Consort, and proceed upon a broad basis of liberality in the management of the Crown Prince's possessions, that would tend to secure the largest amount of revenue in perpetuity, and not drive capital from seeking the mineral treasure lying dormant beneath the worthless surface of the lands of the Duchy of Devon and Cornwall. It is shown by that eminent geologist the late Sir Henry De la Beche, in his "Surveys," that in the best mines of Cornwall the lords' dues, at the ordinary rate, are equal to one-quarter part of the whole profits; but a quarter part of all profit, without incurring any risk whatever, does not satisfy the grasping spirit of the Council of the Prince. The modest demand of that council is one entire half of all profits—one quarter of which, as laid down by Sir H. De la Beche, in the shape of regular dues, and another quarter share of all the profits after the first quarter in dues are taken.

I can see, Mr. Editor, with my "mind's eye," that you cannot believe this statement. I agree with you that such a monstrous proposal is not believed to have emanated from the President of that Council, to whom the Editor of the Mining Journal, in dedicating a volume of that valuable publication (The Mining Journal), in dedicating a volume of that valuable publication (The Mining Journal), in dedicating a volume of that valuable publication (The Mining Alexaed "in 1480 to His Profit Profits after the first

Editor of the Mining Journal, in dedicating a volume of that valuable publication "The Mining Almanack," in 1849, to His Royal Highness, wrote as follows:

The bright example thus set by your koyal Highness in fostering science and upholding the interest of the mining community, cannot but be attended with beneficial results, while it will ever be gratifying to me to reflect on having been the humble instrument of thus contributing towards the advancement of science as associated with mining enterprise. This additional proof of the interest manifested by your Royal Highness in promoting mining operations cannot be too highly appreciated by the miner, as affording an assurance that the welfare of our home mines will be carefully watched over and protected.

assurance that the welfare of our home mines will be carefully watched over and protected.

No wonder after this that you dispute the facts, stubborn things as they are; but, Editor as you are, and patronised also as you are by His Royal Highness, the facts stand out before you unchanged, but most heartily do we pray not unchangeable. For if this decree be like that of the Medes and Persians, that changeth not, then is the night time of successful mining enterprise in England fast approaching, and the days of the glory of England numbered. Prosperity to mining is synonymous in this country with prosperity to the State, and no such prosperity can be hoped for under the iron rule of a Prince who extorts from his subjects one entire half of their successful enterprise.

the iron rule of a Prince who extorts from his subjects one entire half of the profits of their successful enterprise.

The history of mining upon the Basset estates in Cornwall shows plainly enough that liberality on the part of the landlord is the true policy for ensuring an increase of dues from mineral lands. The founder of this large revenue from dues was the late Lord De Dunstanville, who was eminently the miners' friend, while by granting liberal leases he fully proved the soundness of that policy which encouraged in every possible way the investment of capital for the full development of the mineral resources of his lands. What might be the full extent of increase of revenue by the exercise of such policy over the vast domains possessed by the Prince of Wales it is impossible to conjecture, but there can be no doubt it would be something very enormous. How can we account, then, for such short-

sighted proceedings, so damaging to the main spring of the great source of England's wealth, so calculated to prejudice bona fide investors against mining in the lands of the Duchy of Cornwall and Devon, and so permanently damaging to the revenue of the Prince of Wales from his mineral possessions? People there always will be found to bid for the possession of a mine situated as the Phenix is, and people, too, who possess wealth. But they are not of that class who, in the face of adverse prospects, will be found steadily drawing out 1000l. after another to proceed with explorations in search of fresh deposits of ore. They are not numbered with those to whom England owes its high position amongst the nations of the world; they are of a class who in another position of life would be found amongst the "followers of the camp," ready to take any advantage of a little reverse to aggrandise themselves, even to joining in a little "camp plunder;" but they are always found in the extreme rear in a time of difficulty and danger. These are not of that class who are the pioneers of mining; English mining owes none of its prosperity to this class, and the Prince, who derives one of his most honourable titles from the great seat of mining industry, will surely not dim the lustre of the family escutcheon by retaining that portion of his arms after he ceases to observe the motto that accompanies it.

Cheistopher Robins.

THE PHCENIX MINES. AND Mr. WATSON'S "REVIEW."

THE PHŒNIX MINES, AND MR. WATSON'S "REVIEW."

that accompanies it.

CHRISTOPHER ROBINS.

THE PHCENIX MINES, AND MR. WATSON'S "REVIEW."

Sir.—Mr. Edward Leeds, of Manchester, does not appear to be quite satisfied with the few remarks made in my Annual Review upon the close and secret manner in which the affairs of the Phoenix Mines have been conducted. He states that the idea of the shareholders having been bound to secrecy is a "pure fletion" on my part, but at the same time says the mines were worked as a "private concern," and that it was not considered proper to reply to any enquiries of those who "had nothing to do with it." We are also told, as a reason for refusing all applications for information, that the object of this "private concern" was legitimate mining, and not "dealing and jobbing in shares." In the first place, I maintain that a cost-book company, in 200 shares, and with a proprietary scattered over the kingdom (several of whom have at different times applied to my firm to sell shares for them), could not be looked upon as a "private concern,' though I hope and believe its "object was legitimate mining."

But does Mr. Leeds, by his reasoning, mean to infer that a company (take the Devon Great Consols, for instance, where the directors and secretary are proverbial for their courtesy and attention to all applicants for statistical information), or any other dividend mine company whose affairs are open to the public and the press, have not in view the object of legitimate mining? The public in general, it think, would reverse the inference. For many years I applied repeatedly to the Phoenix Company; I wrote directors and managers, and took every means in my power to get correct information as to the state of the mine, the statistical returns, &c., so that I might be able to lay the simple truth before the public, but in no instance did I ever get the common courtesy of a reply. I have also applied frequently to shareholders whom I knew, and who in matters relating to other mines were never sparing of their information; but when I mentioned th

entertain any application for a renewal of the grants to the present adventurers.—
J. R. Gardnerse."

Thus it will be seen that the manner in which the affairs of the company were conducted was made by the Duchy the basis to demand exorbitant terms for the renewal of the lease; and the dispute has ended in the loss of the mine to the present company.

As I said before, I have in my Annual expressed my views upon the Duchy part in this affair, and have now referred to the other side of the question, not to east reflections upon the memory of the dead, but to show the result at times of "private" management, and because I consider the letter of Mr. Leeds a reflection upon those who, like my-self, devote their whole energies to keeping the public advised of the true state—so far as we can—of mining companies, and also upon many public mines, equally as respectable as Phœnix, and infinitely better managed.

J. Y. WATSON.

Meetings of Mining Companies.

LADY BERTHA MINING COMPANY.

An ordinary quarterly meeting of shareholders was held at the company's offices, St. felen's-place, on Thursday,—Mr. Peter Warson in the chair.

Mr. G. Lavington (the secretary) read the notice convening the meeting, and the miutes of the last were read and confirmed. The accounts showed—

| Balance last audit | £ 115 | 2 | 7 | | | | |
|-----------------------------|-------|----|----|-------|----|---|--|
| Received for ore sold, Sept | 1011 | 11 | 10 | | | | |
| Ditto, Nov. | 902 | 16 | 1 | | | | |
| Mundic sold | 108 | 16 | 0 | | | | |
| Received for carriage | 140 | 15 | 10 | | | | |
| Advanced by secretary | 459 | 8 | 9= | £2738 | 11 | 1 | |
| Mine cost, Aug. to Nov | £1747 | 5 | 1 | | | | |
| Committee | 10 | 10 | 0 | | | | |
| Bank charges | 2 | 10 | 0 | | | | |
| Discounting ore bills | | 10 | 6 | | | | |
| Merchants' bills paid | 323 | 17 | 10 | | | | |
| Repaid secretary | 459 | 8 | 9= | 2554 | 2 | 2 | |

. Leaving credit balance£ 184 $\,$ 8 11 The balance of liabilities over assets was 2997. 14s. 6d.

will again be better. The monthly costs shall be kept as low as we can possibly keep them, consistently with the proper working of the mine.—F. C. Harper, J. Metherell, and the proper more and the proper more and adoption of the report and accounts, stated that during the past quarter their property, in common with all other similar undertakings, had had several adverse circumstances against which to contend; not only had there been an almost unprecedentedly severe season and a depressed standard, but there had been incurred the additional, though necessary, expense of sinking the new shaft. The last sale of ore amounted to 200 tons, which did not realise so large an amount as had been expected, which was accounted for by the fact that, in consequence of the inclement weather, they had been unable to dress the best descriptions of ore.

Mr. Ufron thought the cost for the development of the mine was heavy.

The Chairman said that was in consequence of the hardness of the ground which had been explored, but it appeared that at the bottom of the level it was becoming lighter, for the which they were paying 81, per fathom. The hardness of the ground had hitherto mitigated very much against the successful progress of their enterprise. The last also but one was tolerably good, but the last did not realise so much as had been expected, in consequence of the heavy fall in the standard, which had made a difference of something like 12s. 6d. per ton in the price of the ore. He had no doubt but that the standard would have improved had it not been for the present unfortunate aspect of affairs in America, which, however, adversely affected not only mining investments, but also every branch of the commerce of the country. With regard to their position and prospects, there could be no doubt that their property was looking much better. They had incurred the expenses of cutting down the shaft to the 53, but the 41 had gone through a good course of ore for some distance. In the bottom of the 30 there was also a good course of o

of the company, and seeing that the report stated that they would be able to keep up their present returns, while the quality would be better, and that the costs would be kept as low as they could consistent with the efficient working of the mine, the committee

as low as they could consistent with the efficient working of the mine, the committee did not think it necessary to make a call upon the present occasion.

Mr. wreak thought it but a duty to the agents to remark upon the satisfactory fact, that, notwithstanding the depression in the standard, the estimates made at the last meeting had been realized in returns.

The committee having been re-elected, a vote of thanks to the Chairman was passed, and the proceedings terminated.

CATHERINE AND JANE CONSOLIDATED MINING COMPANY.

An ordinary general meeting of proprietors was held at the company's offices, Adam ourt, Old Broad-street, on Thursday,—Mr. DURSPORD in the chair. The notice convening the meeting having been read, a statement of accounts was sufficed, from which the following is condensed:—

 Balance last audit
 £710
 9
 8

 Mine cost, Sept. to Dec.
 987
 16
 3

 Merchante's bills
 382
 11
 4

 Incidentals
 18
 2
 2=£3033
 13
 5

 Lead sold...
 £965
 8
 0

 Calls received...
 109
 4
 0

 Arrears of call
 239
 14
 0=
 1314
 2
 0

Leaving debit balance..... £ 719 13 5

a mucn nigner value.

The report and accounts having been adopted, a cail of 3s. per share was made. The committee were re-elected, when a vote of thanks to the Chairman was and the proceedings terminated.

GREAT WHEAL ALFRED MINING COMPANY.

The ordinary quarterly meeting of proprietors was held at the London Tavern, Bis ate, on Tuesday, Mr. F. R. Wilson in the chair.

Mr. D. Cohen (the secretary) read the notice convening the meeting, and the min of the last were read and confirmed.

of the last were read and confirmed.

The report of the committee was then read, which stated that the general balance-sheet showed a debit balance of 35324. 4s. 9d. The committee remarked that, to their knowledge, no committee, or deputation of a committee, have over previously visited the mine. The economy of working, as well as other important points, had been previously gone into from time to time, and supervised by Mr. Hollow (a member of the committee residing on the mine, to whose local knowledge and practical acquaintance with mining the committee were much indebted), and great improvements effected. The committee were of opinion that further improvement may be effected in this department. As regarded finance, the accounts of the mine had for a long time been very much in arrear—that is, at every meeting the committee found that, instead of there being only the regular three months' debt, then charged asowing, there had been another month's labour pay and two months' merchants' bills, so charged, there have been four months' labour costs and five months' merchants' bills, as charged, there have been four months' labour costs and five months' merchants' bills then owing. In the present balance-sheet all liabilities were included; and, upon the whole, the committee gave it as their decided opinion, and it was also that of the agents, that the mine had not been in so good a position for years past as at present.

The CHARISMAN did not know that he could add much to that report. The committee

the whole, the committee gave it as their decided opinion, and it was also 'that of the agents, that the mine had not been in so good a position for years past as at present.

The CHAIRMAN did not know that he could add much to that report. The committee had visited the mine, and examined most carefully and laboriously into every detail connected with the undertaking. They took with them an experienced mining captain—Capt. Odgers, of Wheal Grouville—to guide and assist them in their investigations, and to make a report, which was already in the hands of the shareholders, and his opinion fully confirmed that already expressed by their own agents, the more especially with respect to the probability of cutting a course of oro in the 290, and the south lode at the 160. If those points should turn out as expected, and there certainly appeared good chances of it, they might, at all events, hope thereby to pay off all the debts which the mine at present owed; and there was, moreover, no doubt, if they had sufficient steam-power, and the ore ground was reached in the 220, that the mine would more than pay cost. They could also return a much larger quantity of ore had they sufficient power to draw it to surface, and until they had increased power, which, by the way, should have been provided long since, the mine could never be brought into a very healthy position. The committee had been very cautious in their remarks and in their recommendations. They would advise that the 220 should be proved, and if cat rich that then a steamwhim should be erected, feeling that it would not be wise to incur any further expense until the value of that point had been ascertained. With regard to their finances, he might, in conclusion, state that the balance-sheet, which showed a debit of 35321., included every known liability up to the end of December.

Mr. Chorcu could not see how it was that additional machinery was now required, for when the present machinery was erected it was said to be the best that the foundry had ever made. The

the depth was not diminished.

The CHAIMAN reminded Mr. Crotch that the committee did not recommend the immediate rection of machinery, but that at the next meeting, by which time the value of the two points referred to would be ascertained, some decision as to the future shoul be determined upon.

be determined upon.

Mr. James Hollow observed that when that mine was first started the machinery erected was of the most efficient description, but since that time the mine had been worked further to the west, and, consequently, their drawing-power had been adapted, as best it could, to the present workings. With regard to the present position of the mine, there could be no doubt the value of their reserves was something very considerable, but the committee did not propose to erect an engine until further discoveries were made. Actuated by the hope and belief that the mine would in a short time materially improve, the committee recommend a call of 6s. Per share, being satisfied that the furre working would at least pay the costs, and the company's financial position would at the next meeting, to be held three months hence, not, at least, be worse, at which time they would have ascertained what had been discovered at the 220 and also at the 160.

The Chairman said, according to the agents' statement, their financial position would by the next meeting have been improved, for Capt. Odgers valued the reserves at 14,500t, but he need not remind the meeting that estimates of reserves could not be taken camparano satis; but he might state that the independent agent whom they engaged entirely confirmed the opinion of their own agents as to the reserves.

The reports and accounts were then unanimously adopted.

The CHAIRMAN said that the proper thing for the meeting then to do, provided there were such undoubted chances of success as would warrant the committee in taking such a step, was to make a call of 14s. per share, to enable them to pay off the whole of the liabilities.

But the committee felt that would be a very hard case for shareholders, who had no idea that the company's debts were anything like what they were. By adopting the recommendation of the committee of that would be a very hard case for shareholders, who had no idea that the company's debts were anything like what they were.

Mr. HAIRISON had under Mr. James Hollow observed that when that mine was first started the machinery

great promise.

Mr. F. Combes said that he and several other shareholders were in great ign.

Mr. F. Comms said that he and several other shareholders were in great ignorance as to the position of the tin in Great Alfred. He wished to know whether the tin was on the back of the copper, or whether it was merely mixed with the copper, and if so, if it were likely the copper would be displaced, and a tin lode formed.

Mr. Holtow replied that the ores were so mixed up with each other that it was at times difficult to tell which was in the greatest quantity, and they were now just in that state that it was more than probable the copper would be replaced by the tin. The celebrated Dolcoath was precisely in the same state some time ago, and was now the richest panjar concern in the West of Cornwall. If as the copper disappeared it showed a rich lode for tin, being of a very strong character, and very large, their mine would be made; and he must confess that he thought there were good chances of such proving to be the case. It was a matter of great importance.

Mr. Hamison, regarding the report of the committee as the most honest that had ever been presented to that company, said that but for their investigations shareholders with the actual position of the company and acquainting the shareholders with the actual position of the company.

A call of 6s, per share was then made.

and acquainting the shareholders with the actual position.

A call of 6s, per share was then made.

The report of Capt. Odgers having been received and adopted, the accounts, showing a balance of liabilities over assets of 3532l., were passed and allowed.

The Charman informed the meeting that the present committee had discontinued accepting bills, so that the merchants must settle their accounts in the usual way. He

The CHAISMAN informed the meeting that the present combinate and associated experting bills, so that the merchants must settle their accounts in the usual way. He thought the calls were beling got in extremely well.

The appointment of Mr. Cohen as secretary having been confirmed, the committee of management were re-elected, with a vote of thanks for the services rendered.

The CHAISMAN having thanked the meeting for the compliant conferred, said they were in no way responsible for the position of the company, having been appointed at the last meeting. He thought it was but a duity to state that the committee thought the shareholders were particularly indebted to Mr. Hollow, who, residing near the mine, was constantly there, and making such suggestions and atterations that he deemed desirable for the advancement of the company's interests; and he (the Chairman) thought that at the next meeting some recognition of Mr. Hollow's services should be made. He had never attended a committee meeting without coming to London at his sown expense,

vision of the affairs of the mine, for without his information, which had already been very great, the committee would have found some difficulty as to what course should be committee would have found some difficulty as to what course should be -Mr. W. S. Orns (a member of the committee) also testified to the valu-rendered by Mr. Hollow.

of thanks to Mr. Hollow having been passed and acknowledged, the ulnated, with a vote of thanks to the Chairman.

WHEAL LEWIS MINING COMPANY.

A general meeting of adventurers was held at the account-house, on Tuesday, when the proposition of Mr. Little, the purser, Mr. F. Hill was elected the Chairman.

A general meeting of adventurers was held at the account-house, on Tuesday, when on the proposition of Mr. Little, the purser, Mr. F. Hill was elected the Chairman.

The accounts for soven months were brought up to the end of December last, showing a loss of 6537f. St. 3d., when a long discussion took place, not as to the desirability of such a straightforward course having been now adopted, but on account of the unfair manner in which the accounts had been previously dealt with. The accounts were then allowed, and divided pro rata among the shareholders.

A long, and at times anything but a complimentary, discussion was carried on as to the real prospects of the mines, and whether the reports of the agents could now be relied on after the disappointment many of the shareholders had experienced from former reports. It was ultimately resolved that Capt. Daw, of the Carn Brea Mines, and Capt. Tredinnick, of the Great Work Mines, be requested to inspect this mine both at surface and underground, and to report their views to a special general meeting, to be held at the Commercial Hotel, Camborne, on Tuesday, Feb. 12.

The Chairman then said the next question was to call on the lords of the mine for reduction or the suspension of the dues. He said he was pleased to see Mr. F. Pryor there, who was one of the lords, and from his knowledge of him, and from his being a strong supporter of mining, he felt confident he would take a favourable view of the case, after looking at the position they were in.

Mr. Parou said the interests of the lord were so closely allied to that of the miner that the prosperity of the one was the success of the other, and that, in fact, the same relationship existed between them as between landlord and tenant, but that there never was a rule without an exception, and before he consented to the proposal of the Chairman, he thought it his duty to remark that he considered the accounts exhibited to-day reflected anything but credit on the committee, who he was sorry to say were principally merch

chants of their standing in the county.

These remarks were well received by the independent shareholders pres

SOUTH DEVON IRON AND GENERAL MINING COMPANY.

A special meeting of proprietors was held at the company's offices, City Bank Ch 'hreadneedle-street, Mr. W. Sank in the chair.

A special meeting of proprietors was held at the company's offices, City Bank Chambers, Threadneedle-street, Mr. W. Sarll in the chair.

Mr. F. G. Goodman (the secretary) having read the notice convening the meeting, The Chairman said that the special object for which that meeting had been called was to submit the report of Mr. J. H. Hitchins, who on Saturday last visited the mine. He (the Chairman) would not, however, detain the meeting, but would at once proceed to read the report referred to, which was as follows:—

Jan. 21.—ATLS TIM MINE: The company's local agents having advised that a very valuable course of the had been cut in the bottom level, it was by the request of the directors that I visited the mine on Saturday last, and went underground and had a look at the discovery. I was glad to find the lode of such a character, quality, and productiveness, as proved to a great extent what had been said about it. When Heft the level on Saturday morning last, at about half-past nine, the lode had been cut into about 2½ fit., 16 in. of which on the footwall (the leader), I could not fail to perceive was the richest part of the lode. Whilst underground we had a hole fired, which broke down some rich tin work from the lode. The character, quality, and productiveness of the leader are in a sufficiently correct manner represented by the large rock of tin I brought back to town with me for the inspection of all concerned, and which will, I doubt not, be thought very highly of, as it really deserves to be. The value of the lode abuse to prove to my own by the actual yield of the lode when it is properly wrought, and the leader taken down and kept to itself, and also separately stamped, dressed, and finally rendered marketable. Looking at the proporties, combinations, and characteristic generally of this lode, or, that is to say, the rich portion of it (the leader), which as before intimated is sufficiently well represented by the large rock of in I brought back with me from the mine. I am induced to believe, and, in

course, enhanced its value considerably.

Mr. Lynch Whitte (the Deputy Chairman) enquired if, taking the dividend-paying tin mines, the character of the ore discovered in the company's property was above or below the average?

The Local Manaer considered it above the average, although, of course, there was some richer; but considering the depth to which their mine had been explored, he thought there were not many lodes that had been cut so rich.

Mr. J. H. Hitchins said the character of the ore was very far beyond the average, and especially when the depth was considered. Not only was the intersecting of the lode at that point a decidedly good discovery, but it at the same time proved that it was likely to improve as depth was attained. In the development of that portion of the property, by driving the level and sinking the shaft, a very large quantity of tin would be taken away. As to the erection of the burning-house, that was imperatively necessary, and the sooner it was up the better; but in the meantime there would be it in preparing to be calcined, so that no time would be lost. All he could say was, after bringing all the judgment he possessed to bear upon the point, that it appeared to him the tin lode would prove of a permanent character. He hoped and trusted that its development would secure the results they were anticipating; for his part, he was very confident of success. The Local Manaers aid that the tributers, to whom he had just referred as having been compelled to cease operations in consequence of the influx of water, had expressed a desire to resume their work at 10s. in 11.; for since the cutting of the lode in the 25 that portion where the tributers were employed had been entirely drained.

The Chairman, in answer to a question from Mr. Haddon, replied that they thought, and he thought Mr. Hitchins would bear them out, that in something like three or four ments they might revelve the property of the containing every characteristic that was comprised in permanent lodes. Mr. Hocains enquired

day previously.

The Secretary, in answer to questions from several proprietors, stated that a large number of applications had been made for the preference shares, and it had been determined to allot the shares as they were applied for; therefore, should the applications for the remaining 3000 shares be before Feb. 14, they would be allotted accordingly. The Chairman thought it was but due to the vendors to state that they still held to their original offer, although perfectly aware of the value of that the lode. He might also inform the meeting that the furnaces were in course of erection for the smelting of the iron ore.

A vote of thanks to the Chairman was passed, when the proceedings terminated.

PORT PHILLIP AND COLONIAL GOLD MINING COMPANY.

The ordinary half-yearly meeting of proprietors was held at the London Tavern, Bishopsgate, on Monday, Mr. JOHN MACDONNELL in the chair.

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Mr. Joun MacDonnell. In the chair.

The notice convening the meeting having been read, the report of the directors (an abstract of which appeared in last week's Journal) was taken as read.

The Chairman said that the report contained everything that the board had to submit to the proprietors. It would be seen that during the last year a very good profit had been made, and that their prospects were very encouraging. They had not sufficient money in hand to make a division among the proprietors, and, therefore, the board proposed that the present meeting should be adjourned until July, under the impression that it was only by an adjournment that they could legally make a division when they again met. That impression, however, appeared to be not quite correct; but there were gentlemen present who were fully qualified to explain the law upon that subject, and also the provisions of the Deed, and whose observations might lead the meeting to alter the proposition of the directors to adjourn that meeting. From the report, shareholders would perceive that the operations of the company had been as successful as they yell could be. They were now emphatically a manufacturing company, their operations being confined exclusively to the crushing of quartz, and, therefore, not liable to the causaities of mining. They were doing exceedingly well, and hoped that shortly considerable remittances would come to hand; the board, therefore, considered, if the meeting would give them six months they had reason to believe that they would then be in a position to recommend a dividend. Sharcholders had seen that during the past year a profit on to recommend a dividend. Sharcholders had seen that during the past year a profit of 13,000. had been made by the crushing of quartz, and that the reports from the mining captains who had the property of the Clunes Company in their charge were to the effect that the present so the allowing the

but they now possessed the property, which was mortgaged for 50001., the value of which would continue to increase as the condition of the colony improved. There could be no

but they now possessed the property, which was mortgaged for 50001, the value of which would continue to increase as the condition of the colony improved. There could be no doubt that they were now a permanently established company, and connected as they were with that very prosperous undertaking—the Clunes Mining Company; the progress of that property was exceedingly satisfactory—for example, they had been lately passing through a great deal of poor land, for the purpose of getting a better character of ground, and even that poor land had given them a small produce in gold. The last advices stated that operations were about to be commenced upon a richer portion of the reefs, when, of course, the assay per ton would be considerably increased, probably to 18 dws.; the yield having been as low as 11 dwts. It would also be seen from the report that there was every prospect, as far as could be judged, that their company would be increasingly prosperous. Therefore, it only remained for him to move that the report and accounts be received and adopted, and that the meeting be adopted.

Mr. ROUPELL, Q.C., had looked into the report very attentively, and had made careful enquiries into matters which, to his mind, required some ventilation, and the result, although they were at present without a dividend, was be had much pleasure in seconding the adoption of the report and accounts, being perfectly satisfed that the directors had acted most judiciously, prudently, and with frankness and courage, in placing a report before the proprietors, recommending that the payment of a dividend should be deferred. There could be no doubt that they had been going a little too fast, and they had now to retrace their steps, and go carefully and cautiously to work, when he believed the propers of a successful career; and, therefore, he most hearity seconded they had now to retrace their steps, and go carefully and cautiously to work, when he helieved they are proposed to the propersor of a successful career; and, therefore, he must confi

nstead of 300 tons.

Mr. Kroon (a director) reminded the meeting that 75001, had not been incurred in the epair of machinery, but in providing new powerful stamping apparatus, new engine, &c.

The CHARDMAN, in answer to questions, stated that the Ningtingbool property had been old at an actual cost. The directors raised a company to buy it up from the Port chillip Company, and they were paying that company the whole amount due upon the woperty.

property.

Mr. ROUPELL, Q.C., in reply to questions as to the legality of declaring a dividend in July, said they could not then declare a regular constitutional dividend, but the directors in July, upon showing that they had an amount to divide, could say—"Gentlemen, we are out of debt, and there is a sum available for division. What is to be done with it? Is it to be locked up, or is it to be divided?" And upon that the meeting could act as they deemed expedient,

they deemed expedient.

After some further discussion, the resolution that the report and accounts be received and adopted was put, and carried unanimously, the addition "that the present meeting being adjourned" being withdrawn. The retiring directors were then re-elected, the sual remuneration voted, and the additors reappointed.

A resolution was then come to, appointing a committee to enquire into the practibility of placing the company under the Joint-Stock Companies Act, with limited liability, to which resolution Mr. Roupell, Q.C., objected, upon the ground that it was legally impraciable according to the company's Charter.

A unanimous vote of thanks to the Chairman, directors, and Mr. Bland, the resident lirector, was then passed, when the proceedings terminated.

ST. JOHN'S UNITED LEAD AND COPPER MINING COMPANY, NEWFOUNDLAND,

hird adjourned special meeting of proprietors was held at the street, on Menday,—Mr. C. P. BERKELEY in the chair.

Mr. J. C. RIDGE (the secretary) having read the minutes of the last meeting,

The Chairman said the business of the present meeting, he believed, was to take into
consideration what course should be adopted with regard to the English Ridge and Turk's
Head Mines, as to whether the purchase should be completed or the property given
back to the vendors.

The Charman said the business of the present meeting, he believed, was to take into consideration what course should be adopted with regard to the English Ridge and Turk's Head Mines, as to whether the purchase should be completed or the property given back to the vendors.

Mr. Turkins would take that opportunity of stating that he bad investigated the merits of certain mineral properties in Newfoundland, amongst which there was one that appeared to combine most valuable elements. As far as he could see, and he had given himself a deal of trouble in the matter, one particular property was not a speculation, its resources and capabilities having been satisfactority shown. Mr. F. N. Gisborne, who had seen the properties, was present, and would give the meeting his opinion, which was supported by the report of a meminent mining engineer, whose report he (Mr. Tekthins) had seen. Referring to Mr. F. N. Gisborne, all he could say was that the community of Newfoundland had presented that gentleman with a splendid statuette in silver, as a mark of their high esteem and appreciation of his indomitable energy in traversing the hitherto unexplored regions of the Island, preparatory to his crection of the telegraph. There were also several other testimonials from the magnates, and other persons of influence in the island, all of which went to show that Mr. Gisborne was a man of scientific skill, perseverance, and integrity. Having said that, he would merely ask Mr. Gisborne to explain to the meeting his opinions, thinking, if the company could be remodided upon such a basis as to ensure an efficient management, that they could see their way clear to a prosperous career. Mr. F. N. Gissonns, having the hack Mr. Tikthins for his kind allusions, said that during the past week he had had an opportunity of explaining to that gentleman and other large shareholders the probable results of the temarks made in the several reports of the committee of investigation, and also the explanation made by Mr. Berkeley. Hethought, without usi

committee should claim of persons who had given bills or notes to the company payment of the same, and that all shares allotted upon which the deposit of 10s. was not paid should be forfeited. That the amended offer of the Turk's Head and English Ridge properties be accepted, and also the offer of Trump Island, either upon 2000 fully paid-up shares in the reduced capital, or a royalty of 10 per cent. of money sales of ore nett in British or American markets; and that the present meeting be adjourned, to give the committee time to ascertain and report upon the financial position of the company, and at which meeting the remaining vacancies in the board should be filled up.

The CHAINAM was exceedingly taken by surprise—indeed, he was astounded at the terms of the suggestions just submitted; but all he could say was that it was utterly impossible they could be determined upon at that meeting. Why, those resolutions almost involved the question of a new company, and he did not see any reason, if Mr. H. P. Gisborne and others were allowed to retire from the board, why he (the Chairman) should not be allowed the same privilege. He must confess that he thought those resolutions were the most unreasonable things he had ever heard put to a body of shareholders, for he always thought that all such suggestions should be left to the consideration and determination of the new directors, whosever they might be. At any rate, he should decide that it was not competent for the present meeting to consider them.

Mr. PULYORD was satisfied that so long as the present directors did not pay their own debts, or meet the calls, shareholders or the public would never subscribe fresh capital.

A Shareholders protested against any personal allusions. They had met for a special object, and the best and only thing for them to do was to come to some determination upon that point.

Mr. TERKINS thought if the meeting would agree to hear Mr. Gisborne. as to the re-

upon that point.

Mr. TEXEXISS thought if the meeting would agree to hear Mr. Gisborne, as to the resources and prospects of the company, that would go a great way in assisting them to arrive at a decision.

Mr. N. Gisborne, sold that supposing they alterether dropped the English Bidfo

arrive at a decision.

Mr. F. N. Gissone said that supposing they altogether dropped the English Ridge and the Turk's Head Mines—and they had until May 31 to decide—they had Trump island Mine, a letter from which had been received, to the effect that it contained a lode 2 feet wide of nearly solid copper ore. One fine specimen now shown had been brought from that property, and that mine was offered to the present company for a royalty upon the ores raised. Surely, there was no risk in that, for if nothing was got nothing would have to be paid. There was also a splendid quarry of marble, 250 feet from the water's edge, and running back for an indefinite distance; and parallel with that there are veins of

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perd antique, which were worth something like 25s, per foot; and in the immediate neighbourhood, within a few hours' pull in a beat, there was a bole of mundie, strongly improved of that property had been secured from the Government, and could be secured by the present company at a small royalty. According to accredited testimony, the lode in Terra Nova was 260 H. long and 40 ft. wide, and would produce 95,000 tons of ore. Therefore, that property was not a mere speculation—it was a question of facts and figures. The whole of that valuable property would probably be offered the company if it could be shown that there was a prospect of its being in a position to work it ested to that their own largest shareholders would gaily co-operate with him in the formation of another company, being satisfied of the intrinsic value of these properties. In answer to questions, he (Mr. Gisborne) stated that the ore for sulphur alone was worth 38s, per ton, which would cover the expense of raising and shipping it; and the inferior qualities were worth 5 per cent. For opper, and the better qualities for the company of the properties which would produce remunerative results; and, therefore, it became with the statement of the st

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RATING OF COAL MINES.—A somewhat important case relating to the rating of collieries came before the Court of Queen's Bench on Saturday. The question raised was as to the construction of 16 and 16 Vict. c. 81, sec. 7 and 8—the County Rates Assessment Act. The county justices of Northumberland had appointed a committee to prepare a basis or standard for the county rate, and this committee had ordered Mr. Doubleday to attend, and produce certain books in his possession, which, as Mr. Doubleday filling, the private books he refused to produce, and also refused to be examined. The local magistrates decided that the Act did not compel the production of the documents. The case was then stated to the Court of Queen's Bench for an opinion as to the propriety of the magistrates decision. The judges decided that the magistrates had come to a wrong conclusion, and that the case must be submitted to them—but without costs. "Emight be," said Justice Crompton, "that the power given was inquisitorial and liable to abuse, but at the same time he did not see how the justices could get on without some power of the kind. Nothing could be stronger than the words of the Act, and looking at those words and the intention of the Act, be thought the magistrates were wrong, though in the first instance he had entertained considerable doubts." Mr. Manisty (with whom was the Hon. A. Liddell) was for the appellants, and Mr. Mellish for Mr. Doubleday, the respondent.

the respondent.

HASWELL COLLIERY.—Mr. Dickinson, the Government Inspector, visited this colliery on two occasions recently. At his suggestion great improvements have been carried into effect in the underground economy of the mine, and the ventilation is rapidly becoming all that can be desired, not only for the safety, but for the comfort of the workmen. Amongst other precautions the number of the wastemen has been very considerably increased, and several places where indications of danger presented themselves have been hermetically scaled. The highly honourable and straightforward conduct of Mr. Dickinson has met with the warmest indications of approval from the workmen, and has tended to inspire feelings of confidence stronger in degree than the manifestations of distrust which were said formerly to have prevailed. It is but justice to add that the suggestions of Mr. Dickinson have met with a ready response from Mr. Taylor, who has exerted himself most zealously to carry them into effect.—Newcastle Daily Chronicle.

Conycitons was Newcastle Mr.

CONVICTION FOR NEGLIGENT VENTILATION.—At Little Bolton, Jan. 17, CONVICTION FOR NEGLIGENT VENTILATION.—At Little Bolton, Jan. 17, Mr. Fereday Smith, the principal agent of the Bridgewater Trustees, was fined 2l. and costs, for neglecting to provide sufficient ventilation in the Lord's Moss pit, Dixon's Green Colliery, the consequence being an explosion, by which one man was killed and three injured. The information was laid by Mr. Dickinson, the Government Inspector of Mines. For the defendant it was contended that the evidence did not justify the information, and it was stated that there had been twice as many accidents since the appointment of Inspectors as before (a positive faisehood). The Trust had done everything in their power suggested by scientific and skilled persons for the safe working of their mines. Mr. Smith was acquitted morally, and his representative called upon the magistrates to acquit him of legal wrong. The negligence was, however, considered to be proved, and the above fine inflicted.

above fine inflicted.

How Collier Explosions are Caused—At the Dukinfield Petty Seasions, on Thursday, Mr. William Seddon, the underlooker for the Dunkirk Colliery Company, attended to support a summons against John Smith, a collier, for having committed a breach of the 15th special rule of the pit, which provides that no collier or other workman shall injure any air-course, or do anything whereby the ventilation of the mine shall be affected, or the property of the owner endangered. The defendant pleaded guilty. Mr. Seddon stated that each man in the colliery had a copy of the rules, and the same were posted up in large type in various parts of the mine, and, in addition, the rules were repeatedly read to the men in the office. It seems that the defendant and two of his wagoners were removing props, &c., on the 18th inst., when they placed the props and some sheet-iron in one of the principal air courses, thus stoping the ventilation. The defendant was fined 20s. and costs, or one month's imprisonment.—Joseph Arkwright and William Oldham, the two wagoners who were assisting Smith, were then charged with the same offence. They pleaded guilty, and were each fined 10s. and costs, or one month's imprisonment.

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FALL OF ROOF AT KERSLEY, NEAR BOLTON—TWO MEN KILLED.—At Messrs, Stott and Knowles' Hole, in the Wall Mine, two colliers were killed by a fail of roof. A solid piece of stone came down from the roof with the soil. The stone was 22 ft. long, 8 ft. broad, and 16 in. deep. Mr. Jeseph Dickinson, Inspector of Mines, was present during the enquiry. He had not examined the scene of the accident, but he expressed an opinion that the men ought never to go beyond a space of 3 ft. 9 in. without placing a prop, and that it was certainly wrong to have left a space of 8 or 9 ft. A verdict of "Accidental Death" was returned.

Glet of "Accidental Death" was returned.

French Coals.—France ranks next to Great Britain as a coal-consuming country, and is the largest coal-importing country in the world. The extent of the French coal formation is estimated at 1920 square miles; the number of coal fields is 64, and they comprise 448 mines, varying from 845 ft. to 1635 ft. in depth. The consumption of coal in France was 10,956,995 tons in 1835; 12405,922 tons in 1855; and 2,740,316 tons in 1856. Her production in the years named was 6,827,007 tons in 1854; 4,53,048 tons in 1855; and 7,740,317 tons in 1856; the deficiency being made up by foreign importation,—Belgium in the last-named year supplying 3,119,630 tons, England 1,165,878 tons, and Prussia 781,521 tons.—History of Coal and Iron.

THE POST-OFFICE DIRECTORY ATLAS.—The character of all works saued by Messrs. Kelly is so well known, that in referring to the publication by that firm of an Atlas, comprising maps of Engiand and Waies, and of the several Engish counties, it will be needless to state that it is highly deserving of public patronage. The Atlas in question is finished in the most artistic style, and coloured with great laste, whilst its price (30s.) is so low that it should find a place upon the table of every commercial firm in the kingdom. The maps were most of them originally employed or the various provincial directories published by Messrs. Kelly, one or two additional ones having been added, however, to make the series complete, and the corrections in all made with every care by Mr. B. R. Davies, the well-known map engraver. The Atlas is portable, but yet of sufficient size to enable every town and viliage of any importance to be accurately delineated. THE POST-OFFICE DIRECTORY ATLAS.—The character of all works

Portance to be accurately delineated.

HOLLOWAY'S OINTMENT AND PILLS—VIGILANCE REWARDED.—With
the damp foggy mornings and evenings, the weak in constitution find out their weak
tolints, and well were it for them if they applied early treatment for invigorating them.
Is the chest affected? Rub Holloway's ointment well twice a day upon that organ, take
is pills in conformity with their accompanying rales, the disease disappears, and with
t future danger files. Is the liver sluggish? The pills, unnieded, will rouse it to its
lealthful activity; or, if long inactive, use the ointment. Is irregularity of any partitilar function the disorder? Consult Holloway's instructions for using his medicaments,
and regulate by their timely application. They will benefit, and can do harm in no case.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ALT-Y-CRIB.—J. Hughes, Jan. 22: There is nothing yet in the deep adit; we are crossing, and expect to cut the lode in a couple of fathoms. In the new adit, on the side of the hill, driving north, the ore holds on well, worth 10 or 12 cwts. per fathom; the lode is the width of the end, with strings and brauches of lead throughout. We have holed or communicated this end with the winze that was sunk down from the shallow adit; here we shall have 15 fathoms backs of ore ground to take away. If this ore holds on as well as the level above (which we expect it will) it will increase our returns after we open well into it. In the shallow adit end north we have had some very good rocks of ore for the last two or three days; it has not risen up to the back of the level yet, but is up two-thirds of the end very good, and only spots then up to the back. This speaks well for the new adit, which is coming 15 fathoms under here, and I expect the ore tries to the back of the present level as we drive on. In the north-west end the lode is not settled yet, after being disordered by the cross-leads, but there is some lead in it still. The stopes in back of the shallow adit are just as usual, and will produce about 10 cwts. per fathom. The prospects of the mine are encouraging, and by present appearances we shall be able to increase our returns to 15 or 16 tons bi-monthly. We have from 12 to 15 tons on the floors, which we should have had ready before this if it were not for the frost, but we shall get it ready in a fortnight if the thaw continues.

ANGARACK CONSOLS.—J. Barratt, Jan. 23: The 24 south cross-cut is advanced 53 fms. from Cox's engine-shaft; nothing new at this point for the past week. The 24 west, on Barclay's lode, is suspended for the present, and the force put to stope the back of the 24, on Eaton's lode, which will yield 1 ton of copper ore per fm., worth 61.

BALLYVIRGIN.—D. T. Maedonald, Jan. 17: Dressing Department: We have dressed and put to pile 1 ton of first crop lead, it not of copper ore

winze has been hotes to back of the 2v, casing a good circulation of rresh air. We shall in a few days commence another winze in bottom of the 20, to ventilate the 30 north.

BOSWORTHEN.—T. Harvey, Jan. 23: Our stamps are now working in good order, with a plentiful supply of water. The frames are all roofed in, so that there will be no hindrance from the wet weather, as heretofore. In the back over the deep adit level, west of Harvey's shaft, we have one pitch on tribute, by four men, also men repairing Harvey's shaft, over the back of the shallow adit level. I am glad to say our pay-day passed off well. One of the London shareholders is down, who paid up all hands to the end of November, and kindly gave them a substantial dinner of good old English fare. Several gentlemen were invited, and three or four in the neighbourhood attended, who expressed their pleasure and gratification. I need not tell you the men were highly pleased; they returned thanks, and gave the gentleman from London three truly Cornish cheers, also the same for our worthy 10rd, Mr P. Marrack.

BRONFLOYD.—M. Barbery, Jan. 23: The frost gone, we are now again in full course of working, and all our operations (dressing included) proceed satisfactorily. I am glad to report that No. 1 lode, in the cross-cut north, is improving as we get nearer the north wall: in fact, it is now yielding saving work. The mixture of ore extends fally 5 feet of the last portion of the cross-cut; as soon as we cut entirely through this large lode it will be most desirable to extend our drivage on its course west, on the most productive part. We consider this a very important result, and you will remember it is several fathoms west of the slide.
BRYSFORD HALL.—Thos. Pierce, Jan. 24: Hammersley's Pipe: This pipe appears

part. We consider this a very important result, and you will remember it is several fathoms west of the silde.

BRYNFORD HALL.—Thos. Pierce, Jan. 24: Hammersley's Pipe: This pipe appears better than it has done for the last three or four weeks, and I expect it to drop into a vein. Hammersley's vein appears power than usual. The cross-cut north of Page's shaft is without alteration.—The 100 Yard Level on the Milwr Vein: The bottom of this level is not so hard as it has been, and we expect an alteration soon. Davies's pipe does not appear so well as usual.—Bostock's Vein: This vein promises well, and by the present appearance will produce large quantities of ore.—Piss Brynford Vein: This vein appears well in the rise from the 100 yard level, south from the shaft. All the other pitches are going on as usual.

BRYNTAIL.—Jas. Roach, Jan. 24: North Lode: The lode in the 10, driving east, is 1½ fit. wide to-day, yielding 15 cwts. of ore per fathom, with every include, which is now directly above the cross-cut driving towards this lode in the 25. I may observe that the 10 has been driven through continuous ore ground 14 fms., and the forebreast still good. The winze below the 10 is 3 fms. deep; lode 15 in. wide, producing 2 tons of ore per fathom. We are now lang greater progress than usual in driving the 25 cross-cut.—Bryntail Lode: The stopes under the 25 are producing from 8 to 10 cwts. of ore per fm. We are now under the shaft sunk from surface on the north lode; in a few days hence I intend rising against it, and when communicated we shall at once be able to stope in back of the 10 fm. level.

BUDNICK CONSOLS.—Wm. Burrows, Jas. Evans, S. Mitchell, Jan. 21: We have

We are now under the shalt sunk from surface on the north lode; in a few days hence I intend rising against it, and when communicated we shall at once be able to stope in back of the 10 fm. level.

BUDNICK CONSOLS.—Wm. Burrows, Jas. Evans, S. Mitchell, Jan. 21: We have dropped below the 30, and are now making preparations to fix the lift to this level. We have cleared and communicated the 20 from the old sump to the engine-shaft, and as far as Turners, which is upwards of 200 fathoms, and fixed the requisite ladder rods, and secured eight shafts, which we are now draining through. Several pares of tributers are working at each shaft, and a great many more pitches might be set if we could get horses to draw the stuff. We are getting on with our steam-whim as fast as possible, and when completed will greatly facilitate the progress of our underground operations. The tribute pitches are improved, and the prospects throughout are equal to our expectations. We have commenced a cross-cut north in the 12 at Hooper's, towards the north lode, which has not been seen below the adit. Large quantities of tin have been raised by the former workers on this lode above adit, and we may anticipate similar results at this point. The ground in the cross-cut is highly mineralised, and easy for driving. Our steam-stamps was set to work on Friday last, to the satisfaction of all present, and continues to work well, and we are now in a position to return the immense quantity of stuff we have now lying at surface.

BULLER AND BASSET UNITED.—G. Reynolds, Jan. 24: The lode in the shaft is still large and very promising, and we are forcing it on with all speed, and without any hinderance. In the 80, both east and west, the lode is looking much the same as for some time past.

CAMBORNE CONSOLS.—Wm. Roberts, Jan. 23: In the 50 east, on the caunter, the lode is nearly 1½ ft. wide, chiefly spar, with very little ore al present. Other parts are without alteration. We shall sample to-day 12 tons of ore.

CARADON CONSOLS.—W. Rich, Jan. 22: The

up the rise in the back of this level, and to effect a communication with the level above without delay.

CARDIGAN CONSOLS.—J. Sanders, Jan. 21: In consequence of a change in the weather we were enabled to put our pumping-wheel to work on Saturday, and I am glad to say that the water is (this evening) 4 fms, below the 20, and I hope to get the mine in fork again in a day or two. The drawing and dressing have been resumed, and while the weather continues favourable everything will be pushed on as fast as possible.

CEFN NORTH UNDERWOOD (St. Asaph, North Wales.)—J. Kinsey, Jan. 19: We have been engaged in clearing the 7 fm. level, and find the lode to be from 12 to 18 in. wide, mixed with spar, clay, and lead ore. We intend sinking the shaft a few fathoms deeper, so as to get under the old workings, and I think we shall get enough ore in sinking to pay the cost of same. The lode is in the right kind of ilmestone—the white—and can be traced at surface for half a mile. The ancients worked on this property, and from the ground taken away, they must have had a large quantity of lead ore. No one in this neighbourhood knows anything about the parties working it in former times. The lower shaft has been sunk about 40 yards, and has been worked about 30 yards deep; there is now 10 yards of water in the bottom of the shaft. There has been a great deal of ground taken away about the shaft we are now working, and no doubt a great many tons of ore was got. We have discovered two east and west lodes, and the south lode, according to its present bearing, will form a junction with the north vein (or lode) at the top of the hill. There is a north and south lode at the lower shaft, and a great many leaders, and some of them have turned out well in the adjoining mines. We are in a highly mineralised country, containing some very rich mines—the Bottlewithin Mine, about two miles from liss, has paid from 20,000. royality, and only 75 fms. deep, 1½ mile from Score Mine, and one mile from Gorde and has the davantage of addit levels, a Mine, and one mile from Glass-coca Mine, and our set: contains the same kind of rock, and has the advantage of adit levels, as our adit levels commenced at the foot of the hill, would come in about 100 fms. deep, when under the top of the hill, close to the railway station, so that we have every facility for working it cheaply. You need not fear as to having a good mine here, and a short time will prove it.

having a good mine here, and a short time will prove it.

CHARLOTTE UNITED.—R. Kendall, Jan. 19: The lode in the 60, east of engineshaft, is about 2 ft. wide, unproductive; ground hard. I expect after a few fathoms
driving we shall have a change for the better, as we shall be coming under the dip of ore
ground wrought on in the levels above. The 50, west of engine-shaft, is still in the
eairn, and ground hard. The 30, west of Trevelyan's shaft, is improving, and is composed of spar, mundic, and black ore; we are expecting to cut a good lode every day.

The 20, east of cross-cut, is looking better. At Tremow we have four men in the adit repairing and putting the same in good condition. The foundation of the boiler-house is
cleared out, for the masons could do but little work. Mr. Eustace is sending home the
engine, and we are pushing on the work with all speed.

cleared out, for the masons could do but little work. Mr. Eustace is sending home the engine, and we are pushing on the work with all speed.

COED MAWR POOL.—M. Wasley, Jan. 18: It is a very great disappointment to have our principal operations suspended for several weeks with the severity of frost and snow, inasmuch that our produce is considerably less than if we had the regular number of hands employed; neither can I afford as much information on future prospects, but, I am glad to say that both the new lode and the No. I continued rich and productive as it am as the water permitted us to prove. You are aware the drainage has been a great drawback here from the beginning. All mines worked by water-power are subject to the same delays. However, a little moisture or milder weather would set us all afford in a few days, as every part is fully prepared for action, having a good supply in the lakes, and the machinery much better calculated for continu us prosecution than atany former period, so that in future no time need be lost except in the very extremity of both seasons, thus affording much better advantages for arriving at profitable results. I am very glad to say I have been most successful in my operations during the past six months. This is fully reomframed by the cutting and opening of the new lode at the boundary shaft, which has left near 30 ms. in length of rich stoping ground deeper than any other part of the mine. At the No. I lode also the deepest ground is by far the richest, and these facility prove the lodes to be rich, and continues when properly developed. It is rare to meet such valuable produce at such shallow depth. Every point ever opened on here always turned up as well as the most sanguine expectations might anticipate. We are proceeding on with the sinking of Wasley's shaft, and making trials about the Roman works. The

tribute pitches working in the shallow places are turning up the average yield, and we have now about 8 tons of ore broken, chiefly undressed, the weather being unfavourable. On the whole, I must say it is a very prosperous looking concern, and I hope to have shortly the pleasmre of giving the shareholders better results than have yet taken place. CRAIGTON.—Wm, Jeffrey, Jan. 22: The end weat is very much improved, both in appearance for making ore and in ore itself. The ore which was confined to a flat floor in the middle of the end is now got down near the bottom; they also find the ere going up in the roof. There is a good branch of ore in the back of the level, which we have gone through from 7 to 8 feet long; the end looks very encouraging, and a bunch of ore is expected the moment the wall is reached. I expect to meet a regular-defined wall in about 3 or 4 stathoms driving. At Stanard, the branch bearing lead and jack has dipped south out of the shaft in the same manner the ore did before.

CUDDRA.—J. Webb. Jan. 24. The suprament are still precogning to fix plunger, lift at

about 3 or 4 fathoms driving. At Stanard, the branch bearing lead and jack has dipped south out of the shaft in the same manner the ore did before.

CUDDRA.—J. Webb, Jan. 24: The sumpmen are still preparing to fix plunger-lift at the 66. We have a party of men putting a stope over the back of this level, to get back west under the tin ground; from appearance we shall cut out good stopes here for tin. The south lode is nearly all worked away for copper in the eastern part of the mine, above the 66, but promises to produce much copper below; and, the engine-shaft being sunk to the 96, we shall hasten on the clearing of the shaft to drain the deep level as quickly as possible. In the 56 we are cutting out the tin lode, and shall have good stopes for tin in the back. We have nothing new in the 36 since last report; we have three parties of men cutting out the lode. In the 20 we shall be cutting out much tinground after driving west under the lode. In the 10 we shall soon be breaking about, and cutting tip-plats at the various levels, to facilitate the discharge of staff when we commence to bring away the lode wholesale. The masons will complete the winding-machine building in a few days, and will be in full force on the stamping-engine buildings. We have several hands employed laying out the tin dreasing-floors.

DALE.—R. Niness, Jan. 23: On Monday night one of the angle-wheels broke, and caused some delay, otherwise all is going on well, and the vein continues of the same value as last reported.

DEVON NEW COPPER.—P. Hawke, Jan. 23: The cross-cut in the 58, 20 fms. to the west of the engine-shaft, into the hard part of the great north lode, is composed of capel, spar, and mundle; we do not expect to meet with anything of importance beyond spots of yellow copper ore, as are occasionally seen, until the more central or northern portion of the lode is reached. The soft part of the lode in the engine-shaft, how the west of the engine-shaft, into the hard part of the lode on the west of mineral substance for 14 ft. wid

11. West it production and the state of the control before a highly removerable to work the most of the preference of the control of the productive for copper one. A similar change is evidently asking place 2 flowers in the control of the productive for copper one. A similar change is evidently asking place 2 flowers in the control of the productive for copper one. A similar change is evidently asking place 2 flowers in the control of the control of the mine.

Add it is much the same a fine of the control of th

and tin. The other bargains and pitches are much as usual.

FOWEY AND PAR UNITED—W. Pascoc, J. Tredinnick, Jan. 22: The adit level is driven 10 fathoms, east of the cross-cut, on Palmer's lode, and communicated with Palmer's shaft, which will now be the main shaft in the mine for the cheaper discharge of the stuff; the lode for the first 4 ims. is from 2 to 3 feet wide, yielding low quality tinstaff; beyond this point, for 4 ims., it is disordered by a cross-curse, but in the last 2 ims. the lode has again opened to 2 ft. wide, and worth 61, per im.; driving by six men, at 31, per fm. Six men are employed at Palmer's shaft, which will be complete by the cad of this week, when we shalt be in a position to cross-cut north to Lucas's lode, which we expect to cut in about 12 fms. driving, with one or two intermediate branches, at a depth of 15 or 16 fms. below surface. Should Palmer's lode continues productive as at present, and the ground as favourable, we will soon make good progress in opening the ground for two or three pares of men the same. The stamps will be set to work in a few days, and, from present appearances, we hope to keep them fully supplied with tinstoff.

FURSDEN.—J. Hampton, J. P. Daw, Jan. 24, man, 24

supplied with tinstuff.

FURSDEN.—J. Hampton, J. P. Daw, Jun. 24: The plat in the 21 is completed, and we are now driving a cross-cut north, at 55s. per fathom: the stratum is highly mineralised with strings and squats of copper ore. The 11 east is improved, and is producing saving work. We cannot report any material change in the 11 west, but it is a very promissing end. The stopes in the back of the 11 are worth 161, per fathom. We have cleared out the big workings in the adit, at the west of the sharf, on what we term Margaret's lode, and find we can work this ground to a profit; we have, therefore, taken two men from the stopes for the last-named place. The weather, although rough, is more favourable for dressing operations.

FURZE HILL WOOD CONSOLS.—C. Thomas, Jan. 11: The following is my report of this mine, which I examined yesterday:—The extent of old tin workings is very great—much more so than I expected to find in that part of Devon. These workings were

carried on above the adit, which, in the valley at the western part of the sett, is about 6 fms. deep, and in the eastern part 25 fathoms. On four todes bearing about 18°, and a caunter bearing 40° south of east, the whole having an underlie northward of about 18 in. a fathom; the caunter of about 3 ft. north-eastward. The stratum is clay-slate, of a silky lostre, much of the same kind that some of the good tin mines in Cornwall have been found in. This clay-slate is traversed by an eivan course of the sort good mines have often been worked in connection with. The sett is situated immediately to the south of North Whal Robert and Wheal Franco, and about one mile, I think, west of the Dartmoor granite. The geological position is unexceptionable. The adit being now inaccessible, I could not examine the portions of lode which may remain unwrought shove weaker level. I found, however, at surface a heap of tinstuff raised from an old arch left by the old tinners, which, by the usual test of vanning, showed as much tin as could be expected from such a position—4 fathoms from surface. The new shaft, sunk 18½ fms., is well situated for speedy development of the several lodes, and for the conveyance of the tin which may hereafter be drawn through it to the stamps. Waterpower, to a moderate extent, is available; first for sinking the new shaft to (say) 20 fms. below adit, and afterwards, if a steam-engine should be required, the water can be used for stamping. The ground is easy to work, rendering the cost of making a trial comparatively little. With the present and prospective price of tin, I consider the mine to be worthy the attention of mine adventurers—holding out good prospects of success.

GARDEN MINE.—N. White, Jan. 23: Our engine-shaft is now down about 3 fms elow the adit level; sinking by six men, at 9t, per fm. and 5s. in 1t. tribute; lode 2ff vide, and improving in quality. The tributers in back of the adit are earning a fai (ving. The building of the engine-house and all other surface operations are progressing very antifactories.

very astisfactorily.

GARREG.—Wm. Sandoe, Jan. 23: In the 20, west of engine-shaft, the lode is 3 feet wide, composed of clay, carbonate of lime, and lumps of lead ore occasionally, presenting a kindly appearance; the stope in the back of this level is much the same as when last reported on, yielding good dressing ore stuff. We have commenced driving from the engine-shaft north towards the old lode, by two men, which progresses satisfactorily.—New Shaft. Here we have driven from the bottom of the south shaft about 2 fms., and have broken a little ore, but find the lode at this point to be pretty much disordered. We shall now fix pent-house, tackle, &c., when the sinking will be resumed at once, in order to get down to the 20 as quick as possible.

order to get down to the 20 as quick as possible.

GAWTON.—G. Rowe, Jan. 19: We still continue to cross-cut through the lode in No. 2 winze; it is laid open 4 ft., and not yet through the leader or ore-bearing part, which is more than 2 ft. wide, composed principally of quartz and good quality yellow copper ore, worth 2½ tons per fm. Judging from the present appearances, we have every reason to expect a valuable piece of ore ground to be laid open at this point. The lode in the stopes in bottom of the 30 west is full 5 ft. wide, carrying a leader on the south wall from 2 to 3 ft. wide, principally composed of mundic and yellow copper ore, worth of the latter 2 tons per fm. The tribute pitches throughout the mine are yielding their usual quantity of ore, and looking kindly. We have had some little difficulty during the past wock in repairing and securing a portion of the soft ground driven through in the 50.

GREAT RETALLACK.—W. H. Reynolds. Jun. 19: The state of the mine is much

GREAT RETALLACK.—W. H. Reynolds, Jan. 19: The state of the mine is much esame as last reported. Bids for 500 tons of blende will be received on Jan. 31.

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GREAT SOUTH TOLGUS.—J. Daw, Jan. 23: The lode in the 112, west of Lyle's zhaft, is 1 ft. wide, a very promising lode. The lode in the 100 west is 3 ft. wide, composed of jack, mundic, spar, and copper ore, worth 1½ ton of the latter per fm. The lode in the winze sinking below the 40 is 3 ft. wide, producing 1 ton of ore per fm. We shall sample 240 tons of copper ore to-day, and sell some good tinstuff next week.

GREAT TREGUNE CONSOLS.—J. Spargo, Jan. 24: The lode in the 80, west of Hobler's shaft, is still producing some saving work, and the country about it is thickly impregnated with copper; this is a sure indication that we are nearing the bunch of copper gone down in the bottom of the 70. I bey to inform you that our driving this week in the 30 has materially decreased the water in the above sink, and we hope by the end of next week to be able to commence stoping, and if the lode continues to hold as good as at present we shall soon have large quantities of ore for sampling.

GREAT TYWARNHAILE.—J. Hampton, J. Edwards, T. Hampton, Jan. 19: The

as at present we shall soon have large quantities of ore for sampling.

GREAT TYWARNHAILE.—J. Hampton, J. Edwards, T. Hampton, Jan. 19: The men to-day are working in the 60, and we hope to be able to commence fixing the plunger-lift in that level shortly, which would be very advantageous when set to work. The winze in the bottom of the 50 is not so good at present, but that is, doubtless, a temporary change only. The same remark applies to the 50 west, but as we have cut the lode in the cross-cut orey a little further west than the end, it confirms our remark respecting the temporary change. Other places in this level are without material change. The 40 east, which was commenced poor three mouths ago, is now the best lode in the mine, and is likely to continue; a short cross-cut about 2 fathoms long would greatly ventilate this end, and increase the speed in driving, besides other advantages. The pitches throughout the mine are looking much as usual, and they are producing a fair quantity of ore. The skip-road at James's shaft is completed to the 60, and during next week we shall begin to draw stuff thereform for the first time. Supposing it is decided to sample in two months from the last sampling, we expect to have 400 tons for the market. The crusher is going on well, like all ths rest of the machinery. The sheds over the dressing-floors are nearly completed, which is a very important thing. The walls of the dry-house are up, and it would have been covered in had the weather permitted.

GREAT WHEAL BADDERN.—J. Hampton, Jan. 19: Although the shaft is still

GREAT WHEAL BADDERN.—J. Hampton, Jan. 19: Although the shaft is still and and wet, we have reason to expect better ground soon, looking at the indications re now have; we have set the shaft again at the former price. There is lead dissemi-ated throughout the shaft, and when the ground, or elvan, gets softer, we anticipate a search inversement.

speedy improvement.

GREAT WHEAL BUSY UNITED.—J. Delbridge, Jan. 19: There is no charge in the 120, or the engine-shaft. In Offord's shaft no change—water flowing freely from the elvans; 110 no change, nor any water to notice. 100 stope yielding 6 tons of ore per fathom; Levett's winze, 14 tons; 90 east, 10 tons; 90 stopes, 11 tons per fathom. Matthew's shaft is worth 121, 80 east, 71, 10 east, 121, per fm. The 40 is poor. Tribute ground in the 100 rise, west of Fleiding's. In the 90 west, below Moyle's bottoms, lode very kindly, saving work for the and copper. In the 90 the old sump-winze is worth 61, per fm. In the 80, north of Wheal Hodge, no change. In the 50 west, rising against Black Dog shaft, the lode is wide, containing stones of copper ore. The engine and stamps are working well.

Black Dog shaft, the lode is wide, containing stones of copper ore. The engine and stamps are working well.

GREAT WHEAL MARTHA.—H. Rickard, Jan. 23: The lode in the 40, east from engine-shaft, is a fine course of ore, better than we have ever seen before in any other part of the mine. The 40 west is without alteration; we shall commence taking down the crey part after this month. The ground by the side of the lode in the 30, both east and west of the rise, remains good for driving, and the men are making good progress; from present indications I have every reason to believe we shall have a good lode here as soon we commence cutting through it. We have holed the rise from the 20 to the 10, and the men are engaged in securing it, in order to bring away the tributors' work. The trammod is completed at the 30, west from Thomas's shaft to the present end, and the end cleared out; we have resumed the driving of it, which I am glad to say is yielding fine work for copper ore. The tribute department, upon the whole, is yielding fair quantities of tim. We have ampled this day on the mine, computed, 200 tons of good quelity, and have upwards of 100 tons undressed at surface and underground for want of room on the floors. The mine never looked so well as at present, and the new discovery which has so recently taken place in our bottom level has brought a great many people on the spot, who pronounced it be the best thing ever yet seen in the mine.

GREAT WHEAL VOR.—T. Gill, Jan. 22: Metre engine-shaft is sunk about 14 feet below the 142, and we expect to intersect the lode in about 9 ft., sinking. We intend to fix the lift in the cistern at the 142, and complete the drop-plat in the course of next month, when we shall commence sinking the shaft with all possible speed. In the 142, driving east of Metal engine-shaft, the lode, which is from 1½ to 2 ft. wide, is worth about 30 ft. per fm. In the 132, driving west, the ground is very hard and wet; much harder than we anticipated. We have a portion of the lode in the and, but

HARWOOD.—J. Race, Jan. 18: The end of Drygill vein west continues to improve will now yield 10 or 12 cwts. of ore per fin. I expect it easier to drive and better for soon. In cutting to the cross-vein the cast and west string has been poor and hru r some time, but is now opened out again, with beautiful stones of ore, and the lime tools is more mineralised, which indicates that we are not far from the vein. The road

are now open for carriages.

HAWKMOOR.—Joseph Richards, James Richards, Jan. 22: The lode in the eastern engine-shaft, sinking below the 70, is full 4 feet wide, composed of quartz, capel, fluor-spar, and very good stones of copper ore of superior quality; it is a very fine-looking lode indeed, and fully warrants the belief that still deeper explorations will be attended with good results. In the 50 east the lode is full 3 ft. wide, and worth 2 tons of copper ore per fathom. In the 50 east the lode, although of good size, does not show such promising indications as for some time past; we, however, believe it to be only a temporary change, and hope ere long to be able to report improvements here. In the stopes in the back of the 50 east the lode is worth on an average 2 tons of ore per fathom. In the pitch in the back of the 30 east there has been a great improvement since last week; the lode has increased in size to nearly 4 feet wide, and is worth fully 6 tons of copper ore of very good quality per fathom. In the 20 east the lode is small and poor, but from the fact of having such an insprovement in the pitch in the back of the 30, just alluded to, a few fathoms ahead of this end, we fully expect that a discovery will be made in this direction. In the add theyl, driving west at West Hawkmoor, on No. 3 lode, the lode is small; we expect to meet with the cross-course in this end shortly.

is small; we expect to meet with the cross-course in this end shortly.

HERWARD UNITED—T. Pierce, Jan. 24: The 45 yard level, west from Dunsford's shaft to the common: We are sinking a sump, at the end of this level, on the vein, and expect to drop on a bunch of lead ore every day. The 55 yard level is without atteration since last reported upon; but in driving a few yards west we expect to meet with the old Pant-y-Pydew vein. The 80 yard level, west of Dunsford's shaft, is in very promising ground, the vein at the forebreast being 2 feet wide, composed of spar, clay, and lumps of ore. In the 50 yard level, cast of Dunsford's shaft, we have got through the knot at the forebreast; the vein in the bottom of the level is 15 inches wide, and at the roof about 6 inches, composed of spar, dufts, and lead ore. The stopes between the 55 and 80 yard levels are looking well, in a very promising ground.—Crosble's Vein. No alteration here since my last report. We are going on very well with the washing, HANGSTON DOWN (CONSOL'S, T. Richayst, Inc.) 32. Morris's means shaft can.

HINGSTON DOWN CONSOLS.—T. Richards, Jan. 28: Morris's engine-shaft continues to produce some saving work. The 120 west produces occasional rich stones of ore. In the 110 cross-cut a small branch has been intersected, containing a little rich ore; we hope to reach the main part of the lode here shortly. The 100 west is without change. The stopes in the bottom of the 100 will produce 6 tons of ore per fathom. The stopes in the bottom of the 100 will produce 8 tons per fathom. The 85 west will produce 4 tons per fathom. The stopes east and west of rise, in the bock of the 85, will produce 7 tons of ore per fm.; the rise is for the present suspended. No change in any other par of the mine.

cated to the 70 it has very much imp good progress in the cross-cut north t 2½ to 3 ft. wide, composed of fluor-s but not enough of the latter to value. ry much improved the ventilation, so that the men are making s-cut north towards the lode. In the 60 east the lode is from sed of fluor-spar, quartz, mundic, and rich stones of copper ore,

but not enough of the latter to value.

KESWICK.—Jas. Postlethwalte, Jan. 19: In the 20, north drift, the lode is worth 8 cwts. of lead ore per fm. Charles's rise is worth 12 cwts. per fm. Laccaster's stope is worth 6 cwts. per fm. In the 30, north drift, Charles's stope is worth 10 cwts. of lead ore per fathorn. Hutchinson's stope is worth 6 cwts. per fm. Greenwood's rise is worth 12 cwts. per fathorn. In the 40, north drift, west vein, the lode is worth 12 cwts. of lead ore per fm. In the 50, north drift, east vein, the lode is worth 10 cwts. per fm. Spark's stope is worth 10 cwts. per fm. In the 50, north drift, east vein, the lode is worth 12 cwts. of lead ore per fm. In the 50, north drift, east vein, the lode is worth 12 cwts. of lead ore per fm. Hodgson's stope is worth 10 cwts. per fm.

per fm. Hodgson's stope is worth 10 cwis. per fm.

MERLLYN.—Wm. Sandoe, Jan. 23: The stope in the back of the 16, south of black shaft, continues to yield a good mixture of lead ore. In the cross-cut going cast from Sandoe's shaft there is no change to speak of since my last, it progresses steadily. In the end going east from new shaft we are through the cross-course, and have again, what I believe to be, the lode going east in its proper course, underlie, &c., and although at present small, no more than 1 ft. whee, it produces fine stone of lead ore up and down the end of precisely the same nature as formerly, and from present appearances I judge the lode will open wider, and turn out well, when we get a little more of the insuence of the cross-course. In the stope in back of this level the lode also in going up is rather disordered by the cross-course, but will still produce from 15 cwts. to 1 to a for ore per fathom. We have commenced dressing, and should the weather keep favourable I hope to prepare a small parcel of ore for the sale in a fertnight's time.

MOLLAND.—T. Benetts, Jan 23. We have finished sinking the shaft below the 52 miles of the course of

to prepare a small parcel of ore for the sale in a fertilight's time.

MOLLAND.—T. Bennetts, Jan 23: We have finished sinking the shaft below the 52 for a fork. The lode in the bottom of the shaft is about 1 ft. wide, composed chiefly of quartz, with good spots of ore; this I think augurs well for the next lift. The lode in the 52, on which we are now opening, is large, producing stones of ore occasionally. The lode in the 42 cast is 2½ ft. wide, producing a few stones of ore; ground a little easier than last week. The stopes in the back of this level are producing I ton of ore per fm. The lode in the 32 cast is 2 ft. wide, producing I ton of ore per fm.; ground a little easier than last week. The stopes in bottom of 20 cast are producing 1½ ton of ore per fm.; in the bottom of this level we are about 20 fms. west of the stopes. We have been sinking a winze on a kindly lode, producing I ton of ore per fm. This winze is over some old backs in the 32.

NANTEGORAND, PENDRIUM.—II Republic W. Paull Lev. 93. Furtiretten. The

than last week. The stopes in bottom of 20 cast are producing 1½ ton of ore per fin.; in the bottom of this level we are about 20 fms. west of the stopes. We have been sinking a winze on a kindly lode, producing 1 ton of ore per fin. This winze is over some old backs in the 32.

NANTEOS AND PENRHIW.—II. Boundy, W. Paull, Jan. 23; Eystumtean: The stopes in back of the adit, east of No. 3 rise, are without any change to notice, worth 15 cwts. of ore per fin. In the level, driving west of No. 2 rise, the lode is large, and contains mundic, blende, and a little ore. In Recec's level east the lode is still disordered and poor. Row's level, driving west of No. 1 rise, on the north or bearing part of the lode, has not been taken down since last reported. The level in ditto, driving west of No. 3 rise, on south part of the lode, is a little improved, yielding at present 12 cwts. of ore per fin. The stopes in back of the level are yielding 12 cwts. of ore per fin.—Bwelphymyn: The 30 cast is letting out more water than usual, but the lode still unproductive. The tribute pitches are looking just as usual. The wheel-pit is completed, and nearly all the wheel delivered on the mine. We shall proceed at once with its erection, and no time will be lost in getting it to work. The frost has again disappeared, and we have commenced our dressing and surface operations.

NETHER HEARTH.—Wm. Vipond, Jan. 18: Since writing you we have got a little further into the vein in the end. The lode is looking more kindly, and mixed throughout with fine pieces of solid ore. Alticgether, I thinks it looks very promising with the limestone now on, and the vein producing ore. I hope we have nothing to do now but to push forward and open out a good mine.

— Mr. Robinson, Jan. 24: 1 beg to inform you I was at Nether Hearth yesterday; the new vein they cut on Friday last looks promising. They took a beautiful stone of ore out of it yesterday below adit, about 4 stone weight; the ore is best going dow, and is embedded in a beautiful matrix of fluor-sp

NORTH DOWNS AND WHEAL ROSE UNITED .-- J. Vivian, T. Trelease, Jan. 28 NORTH DOWNS AND WHEAL ROSE UNITED.—J. Vivian, T. Trelease, Jan. 23: The copper lode in the winze sinking below the deep adit, south of boundary shaft, is 14 in. wide, worth 151, per fm. Old Briggan lode, in the deep adit level, driving east of the above shaft, is 1 ft. wide, containing stones of ore, with a promising appearance. The north tin lode, in the deep adit level, east of above shaft, is 2 ft. wide, producing a little tin, but not of much value. The lode in the shallow adit, driving east of Taylor's shaft, is 4 ft. wide, worth 61, per fm. The lode in the stopes in the bottom of the shallow adit, east of Skinner's shaft, is 6 feet wide, worth 201, per fm. The lode in the stopes in the bottom of the said level, west of the above shaft, is 4 feet wide, worth 251, per fm. No other change to notice since our last report.

NORTH FRANCES.—J. Moyle, Jan. 19: Engine-shaft: The shaftmen are cutting a plat at the 28, which we hope to complete before our next setting-day (Feb. 8), when they will resume sinking the shaft. Hunt's shaft sinking below the 50, at 161, per fm. the lode is 32 ft. wide, I foot of which is well charged with fine native copper, but not enough to value. We have about 2 fms. more to sink to reach a 60, when we think of opening on the lode both east and west, and cross-cutting south.

NORTH LAXEY.—R. Rowe, Jan. 22: The lode in the 27 end is about 2 feet wide,

on the fode both east and west, and cross-cutting south.

NORTH LAXEY.—R. Rowe, Jan, 22: The lode in the 27 end is about 2 feet wide
and is still worth I ton of ore per fm.; we are straightening the winze, or new shaft
holed to this level, to take the new line of rods for pumping the water out of the nev
engine-shaft below the 27. The varying, or crocked, underlie of the lode (as noticed by
Mr. Williamson) is the cause of this, but will not be long in hand.

engine-shaft below the 27. The varying, or crooked, underlied it he lode (as noticed by Mr. Williamson) is the cause of this, but will not be long in hand.

NORTH MINERA.—W. T. Harris, Jan. 24: I have just come up from underground, and, on the whole, I consider our prospects at Pugh's never looked better. In Charles's shaft, sinking below the 25 yard level, we have a solid branch of lead, 6 in. wide, from one end of the shaft to the other, and improving as we go down, besides other small branches going off into the side; this discovery confirms our anticipations, and proves the continuation of the course of lead sunk through in Williamson's winze, and now driving on in the 35 yard level east, and from which we can safely calculate upon another 10 fms. In extent of very productive ground. In the 35 yard level, driving east, the lode is of a very promising character, and at present producing fully 3½ tons of rich ore per fm. The cross-cut driving south in the 35 yard level is in fair ground for progress; the portion of the flat we are taking away in driving producing lead sufficient to pay for driving, or 10 cwts. of lead per fm. The atin back of the 25 yard level, west of shaft, is producing lead bout 2 tons of lead per fm. The same flat, east of shaft, is producing lead bout 2 tons of lead per fm. The ame flat, east of shaft, is producing lead hole, are progressing satisfactorily, but without sny particular change since my last. Our engine will be in readlness for working by the end of this week, but in consequence of the recent rough weather we have had, a few days will elapse before the shaftwork will be completed. The weather is very fine at present, and and all our surface-work is going on with dispatch. We are also using every exertion in the dressing department, and shall lose no time in getting a parcel of lead for sale. urface-work is going on with dispatch. We are also using every exertiong department, and shall lose no time in getting a parcel of lead for sale.

in the dressing department, and shall lose no time in getting a parcel of lead for sale. NORTH TRESKERBY.—J. Vivian, Jan. 23: The 57 fm. level, driving east of engine-shaft, still continues a good lode of ore, the same as reported for some time past; this level is communicated to the first winze, which winze has been sunk from the 47 fm. level, through a good course of ore, all the way worth from 35, to 40!, per fm. High-burrow shaft, east of last-mentioned winze, is sunk below the 47 fm. level nearly as deep as the 57 fm. level, through a large lode, worth from 69.t. 580., per fm. all the way. In the 57 fm. level, driving west of engine-shaft, lode 3 ft. wide, improving, worth from 121, to 141, per fm. In the 16 fm. level, east of Tresidder's shaft, loc-3 2 ft. wide, worth 10!, per fathom and improving. No alteration in any other part of the mine.

NORTH WHEAL EXMOUTH.—W. Skewis, Jan. 19: In extending the 30 fm. level north from Hallett's engine-shaft, I am pleased to state that although nothing of value has up to now been met with, a considerable change has taken place in the present end, both in lode and stratum, the former being composed of quartz, mundic, and spots of lead, and the latter a very light, soft congenial killas, which is highly mineralised, and is such that leaks me to expect an early improvement; the end is now set to drive by six men,

and the latter a very light, soft congenial killar, which is highly mineralised, and is such that leads me to expect an early improvement; the end is now set to drive by six men, at 11. 15s, per fm. The pitches on the south part of the mine are improved, and looking far beyond my expectations should this improvement continue to end of the tributers take (Feb. 16), the tributes will be much reduced. We have now on the mine about 10 tons of lead ore broken, but in consequence of the late severe weather, we have only been able to dress about 6 tons, which will be sampled on Jan. 21.

10 tons of lead ore broken, but in consequence of the late severe weather, we have only been able to dress about 6 tons, which will be sampled on Jan. 21.

NORTH WHEAL ROBERT.—J. Richards, Jan. 22: Murchison's Shaft: In the 50, east of Jenkins's cross-cut, on No. 1 south lode, the lode is small and unproductive. In Elliott's cross-cut, on the main lode, the lode is small and unproductive. In Elliott's cross-cut, on the state of the state of the progress is, consequently, alow. In the 50 west, on the main lode, the lode is 2 feet wide, and consists of quartz, mundic, and capels. This drivage is suspended, and the men removed to drive a cross-cut south in the 30, on the middle cross-course. In the 40 west, east of Gorman's cross-cut, on No. 1 south branch, the branch is 9 in. wide, very promising, and is worth ½ ton of ore per fm. In the 40 west, east of Gorman's cross-cut, on No. 1 south lode, the lode is 18 in. wide, and yelds songer cut south, in the 30, the ground is slow for progress. In the 30 west, and west of Edwards's cross-cut, on No. 1 south lode, the lode is 18 in. wide, and yelds good stones of ore occasionally. In Crowle's winze, sinking below the 30 west, and west of Edwards's cross-cut, on No. 1 south lode, the lode is 18 in. wide, and yelds good stones of oreos-cut, on No. 1 south lode, the lode is 18 in. wide, and yelds food stones of cross-cut, on No. 1 south lode, the lode is 18 in. wide, and worth for the length of sink (9 ft.) 2 tons of ore per fm. In Weymouth's rise, in back of the 30 west, east of Edwards's cross-cut, on No. 1 south lode, the lode is 18 in. wide, and worth for the length of sink (9 ft.) 1 suspended for the present, and the men removed to drive a cross-cut south, in the 40 below is looking so promising. The trial shaft is in regular course of sinking below the 62, in favourable ground for progress.—Trial Shaft: In the 40 west, on No. 2 south lode, the lode is 18 in. wide, and wyled, composed of quartz and mundic. Owing to the weather being so bad for dressing operations, th wards's cross-cut, on No. 1 south lode, the lode is worth 1½ ton of ore per fathom. In HOLMBUSH.—R. Rryor, T. Woolcock, Jau. 22: We have nothing particularly new to inform you of since our last report. The 80, on the north lode, is improved; the lode is 18 in. wide, producing good stanes of copper ore; from the appearance we expect further improvement. We have cut more water to-day in the 145, on the lead lode, which we hope will drain the 182 shortly, and will lay open some good tribute ground. We are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to take down next week, and will let you know the value. We have bored it in several places, through a good lode. In the winze sinking below the 60 the lode is worth 7 tons per fathom. The tributers throughout the mine are working in good spirits, and getting fair wages. Our next sampling will be better than our last.

**RELLY BRAY.—Silas James, Jan. 19: There is no change to notice in any part of the mine during the past week. The tributers are working well, and earning shir wages is their respective tributes.—Eastern Mine: Since the whim-shaft has been communistically in the same is the present and the men removed to drive a cross-cut south, in the 30 west, the ground is easy for driving; this drivage is suspended for the present, and the men menoved to drive a cross-cut south, in the 30 west, the ground is easy for driving; this drivage is suspended for the present, and the men menoved to drive a cross-cut south, in the same level, on the present south in the same level, on the middle cross-course, for intersection No. 1 south branch which in the 40 lode, which in the 40 lode, which we have to the present south in the same level, on the middle cross-course, for intersection No. 1 south branch which in the 40 lode, with the suspended for the wing promisers.—Trial Shaft: in the 40 west, on No. 2 south lode, the lode is 8 in. wide, and yields good stones of cro cocasionally. In the 40 west, on No. 2 south lode, the lode is 9 in. wi

38 the lode is 2 ft. wide, composed of flookan, white prian, soft fluor-spar, a little mundic, and spots of lead ore, and presents every indication for producing ore in driving under the hill and also in depth. We have suspended operations in the 28; the whim will have full employment to keep the stuff from the shaft and lower level. The wheel and the machinery are working well, and keeping the water with ease.

OKEL TOR.—(Telegram).—B. Collom, Jan. 25: An important discovery in the 80; de increasing, yielding full 10 tons of ore per fathom.

lode increasing, yielding full 10 tons of ore per fathom.

OLD TOLGUS UNITED.—G. Reynolds, Jan. 24: We are making all the necessary arrangements for the fixing of the lift below the 72. The ground in the 52 cross-cut is still highly mineralised, and letting out more water than before. All the other departments throughout the mine are without change since our last report. We have sampled this month 80 tons of fair quality tinstuff, and hope to increase the returns soon.

PEDN-AN-DERA.—W. Tregay, J. Thomas, Jan. 19: Engine-shaft: The water is in fork, and sinking resumed. In the 100 east the lode is 2 ft. wide, poor. In the 100, east wirze plat, we find on shooting out the north side of this level the tin ground running back west behind the level, consequently our proper course will be to continue stoping this ground while it continues productive; this stope is now worth 201, per fm. In the 50, west end, the lode is 8 ft. wide, poor. In the rise in back of this level the lode is 2 ft. wide, poor. In the first in the 60 west we find the lode is very promising, and yielding some fair quality tinstuff.—Cobbier's: The lode in the bottom of this level the lode has improved, now worth 181, per fathom. In the 60 west we find the lode is very promising, and yielding some fair quality tinstuff.—Cobbier's: The lode in the bottom of this two worth 101, per fm. In the 68 west is worth 61, per fm. The 47, west rise, is yielding coarse tinstuff.

PENDEEN CONSOLS.—Wm. Eddy, J. Warren, Jan. 19: We beg to hand you our

is yielding coarse tinstuff.

PENDEEN CONSOLS.—Wm. Eddy, J. Warren, Jan. 19: We beg to hand you our monthly report:—The 118 north is driven 4 fms. 1 ft. 10 in., we have not taken down any lode for the month, but the western side has a good appearance. In the 118 south the men have been engaged in taking down a bargain of a lode, which has tarned out 3 tons of ore per fathom, also putting in pent-house and cutting plat. No. 1 stope, in back of the 118; lode yielding 5 tons of ore per fathom. The 106 south is driven 3 fms., lode large, and of a very promising character; we shall be able to report to you next week its value. The 106 north is driven 1 fathom, and a large bargain of lode taken down; lode now 2 feet wide, and worth 12t, per fm. The stopes in the back of the 106 are yielding 3 tons of ore per fathom, worth 10t, stoping for 3t. We have set our sumpshaft to sink and fork to cut.

nant to sink and fork to cut.

PENHALDARVA.—S. A. Pope, Jan. 19: We have intersected the great lode in the 0 west, where the leader part is about 6 in. wide, composed of soft spar, mundic, and potted with lead. The 10 cross-cut cast, in about 22½ ms. ground, is letting out more vater, but no lode or branch yet cut. No alteration in any other bargains, there being to lode taken in down either since my last.

no lode taken in down either since my hast.

PRIDEAUX WOOD.—J. Rich, P. Rich, Jan. 21: The lode in Kendall's shaft sinking under the 64 fm. level, is 4 ft. wide, but is disordered by a horse of granite, and poor. In the 54 fm. level, east of Kendall's shaft, the lode is 2½ ft. wide, producing saving work for copper ore. In the 54 fm. level, west of Kendall's shaft, the lode is 1½ ft. wide, containing a little tin. In the 44 fm. level, east of Kendall's shaft, the lode is 3 ft. wide, yielding nearly 1½ ft. on of copper ore per fm. In the 24 fm. level, east of Terffy's shaft, the lode is 2½ ft. wide, containing mundic and copper ore, but disordered at present by the cross-course.

the lode is 2½ ft. wide, containing mundic and copper ore, but disordered at present by the cross-course.

PROSPER UNITED.—J. Hosking, Jan. 23: In bringing up our deep drain we have driven through two fine elvan courses, the last 6 fathoms thick; since being through it 20 r3 fms. Jwe have disovered apparently a very promising lode, never before seen in the mines, composed of rich looking gossan; it is a regular caunter lode, bearing about 35° south of east, and intersects all the other lodes and elvans, and may turn out to be a great requisition to this property. We shall sink a few fathoms on it at once, so far as we can go for the water; we cannot, of course, yet speak of it as of any valuable importance, but still I thought it advisable to inform you of it.

— W. H. Martin, Jan. 24: I beg to say that the adit from the valley has been opened, and brought up over 300 fathoms and made secure, in which we have passed through two elvan courses, and this week have intersected a new lode, which was never before discovered in the sett; it is composed of quartz, soft gossan, and prian, very kindly in appearance, and likely to prove a good appendage to the main lodes. There are several other new lodes to be intersected in pursuing this adit. We are driving the adit both east and west to communicate with Hoskings's engine-shaft, which we hope to accomplish next month. The house and stack for the biast-engine is completed, and the engine (an 8-in. cylinder) will soon be at work. A large portion of Louisa's pumping-engine has been received, the heavy parts of which we are putting together preparatory to fixing them in the house. The masons are now making good progress with the buildings, and the carpenters busily engaged preparing the woodwork for the erections.

PROVIDENCE.—W. Hollow, jun., T. Anthony, P. Rogers, Jan. 23: Higgs's Shaft: No. 3 catopa las worth 301, per fm. No. 4 carbona is worth 301, per fm. There is no change in any other part of the mine to notice. The following is an abstract of our setting on Friday

on tutwork.

REDMOOR.—T. Taylor, Jan. 21: In the 80 west, on Johnson's, the lode is about 3 ft. wide, containing a quantity of mundle and quartz, and worth about 71. per fm. for tin; set to six men, at 71. per fm. The stopes in the back of this level are worth about 61. per fathom, set at 31. The lode in the 70 west is about 2½ ft. wide, mixed with a very hard capel, worth about 81. per fm.; set to four men, at 62. 5s. per fm. The former stopes in the back of the 60 at 12s. The 40 cast, on Johnson's, is worked by four men, at 50s. per fm. driving at 11s. tribute.

back of the 60 at 12s. The 40 cast, on Johnson's, is worked by four men, at 50s. per fm. driving at 11s. tribute.

RHEIDOL.—Capt. Ridge, Jan. 16: Rhurruggus deep adit level west has been driven through two pipes of lead; the first pipe, which was 1 fm. in' length, we cut 5 fathoms west of cross-cut; the second pipe was about 2 fms. in length, and intersected about 13 fms. west of cross-cut; the lead has every appearance of holding good in depth. In the course of driving the lead continues in small branches, now and then rising up the forebreast, and sometimes disappearing, the lode has not been taken down for the last 6 fms. I hope to accomplish this by Saturday next. We have cut into a good pipe of blende going eastward, which will yield from 2 to 3 tons per fm., and the ground is easy for driving.

— Jan. 19: Since my letter of Jan. 16, we have taken down the lode in the west end of Rhurruggus deep adit level, which is 2 ft. wide, and is composed of spar, branches of lead and blende, but not to value; the end has a good appearance for further improvement. In the level, driving cast, the lode is from 3 to 4 ft. wide, yielding from 2 to 3 tons of blende per fm.—Midway Level: The water having much decreased, we have resumed the sinking of the winze to communicate with the deep adit; the lode yields 2 tons of blende per fm. In No. 1 stope, east of No. 6 rise, the lode is yielding 2 tons of blende and 5 cwts. of lead per fm. In Nantiglass deep adit level the lode continues its course of 45 degrees west of north, and is 2 ft. wide, composed of spar and blende, but in a broken up and very disordered state. The severe frost for the past week has not as yet enabled the dressing operations to proceed. The carpenter is employed repairing barrows, and the lovels progressing in Rhurruggus give every indication of opening out some good mineral ground.—P.S. Since writing the annexed report the men have within the hast few hours fired two or three holes, which has broken down some very good stones of lead in Rhurruggus deep

few hours fired two or three holes, which has broken down some very good stones of lead in Rhurruggus deep adit level west. It is my opinion the levels cast and west will pay well for working in time to come.

RIBDEN.—R. Niness, Jan. 24: The sinking of Gilbert's shaft is pushing on as fast as possible, and the lode is producing both copper and lead.

ROSEWARNE CONSOLS.—James Richards, Jan. 23: There is no alteration to notice in the 30 end, driving east of the engine-shaft, ince last report. The same with the 20, on the caunter lode. The 20, driving east of Boorman's shaft, on the branch, is worth 81, per fm. The stopes in the bottom of the adit, east of Hollow's shaft, are worth 71, per fm. There is nothing new to report in any other part of the mine.

ROSEWARNE UNITED.—H. Woolcock, Jan. 24: In the 90, east of St. Aubyn's engine-shaft, the men are employed rising against Jenning's shaft; we hope to communicate this shaft in about a fortnight from this time, when we shall commence to drive east. In the 90 west the men are employed cutting down footway shaft; this we hope to complete in a fortnight from this time, and commence to drive west. In the 58, west of Richard's, the lode is large, impregnated with copper. In the 46, east of Lane's shaft, the lode is 3 ft. wide, at present unproductive. In the 34, east of Lane's shaft, the lode is 15 in. wide, with a very kindly appearance. In the 34, east of Lane's shaft, the lode is 18 in. wide, it has end is in the elvan that made so productive near Phillips's shaft, and we hope soon to have something better in this end. In the 29, east of Lane's shaft, and we hope soon to have something better in this end. In the 29, east of Lane's shaft, and we hope soon to have something better in this end. In the 29, east of Lane's shaft, and we have so some time past. We sampled on Tuesday last 79 tons of good quality ore.

SIGFORD CONSOLS.—Wm. Hosking, Jan, 23: The progress in sinking the engineshaft is very satisfactory, beling now down of fms. 2 ft. below the 14 fm. level. The

SILVER VEIN.—F. Squire, Jan. 24: Since Friday I have been enabled to proceed safely with the reduction-works, and trust shortly to have the pleasure of announcing their completion. Notwithstanding the unfavourable weather during the greater part of the time since my last communication, upwards of 200 tons of ore have been raised from the recent workings, and, from the state of the silver-bearing lodes at this time, hundreds and hundreds of tons could be readily obtained by employing more labour. From our present arrangements at the reduction-works, about 60 tons per month may be treated. In that large quantity, from an analysis made, I am not aware of any can's hundreds and numerangements at the reduction-works, From our present arrangements at the reduction-works, be treated. In that large quantity, from an analysis made, to prevent a large and highly satisfactory result for silver. rich; others, of course, run unequal. de, I am not aw

rich; others, of course, run unequal.

SOERRIDGE CONSOLS.—James Richards, Jan. 22: Hitchins's Engine-shaft: In the 50 fm. level cast, west of Crews' cross-cut, on the south part of the main lode, the lode is improved, being at present worth 1½ ton of ore per fm. In the 40 cast, on No. 2 south lode, the lode is showing improvement, and is worth ½ ton of ore per fm. The ground is also become much easier for exploration. In Dunn's rise in the back of the 40 cast, on No. 2 south lode, the lode is also improved, being at present worth 1½ ton of ore per fathom. There is no alteration in any other part of the mine.

fathom. There is no alteration in any other part of the mine.

SOUTH CONDURROW.—Jos. Vivian, Wm. Thomas, Jan. 21: The engine-shaft is now down 6 fms. below the 15 fm. level, having sunk 4 fms. in the past month. The lode in the shaft is 4½ ft. wide, composed of gossan, pach, spar, mundle, and a little yellow copper ore. The present price for sinking is 14½, or fm. In the 15 fm. level cast the lode is 4 ft. wide, composed of spar and gossan, and impregnated with gray copper ore, altegether a very kindly lode, new price for driving 24. 15s. per fm. The lode in the deep adit level west is 2 ft. wide, and not producing any copper at present, new price for driving 64. 10s. per fm. The lode in the deep adit level east from Thomas's shaft is 3ft. wide, composed of spar, gossan, and a little copper ore; this level is being pushed on with all possible dispatch, as by communicating it with the same level being driven west from the engine—shaft the engine will be relieved from a great deal of its present work. We have, therefore, let 40 fms. to drive at 33. 5s. per fm., and trust that by thus letting the deep adit level west of cross-out, on Wood's lode, the lode is 2 ft. wide, kindly—and producing good stones of copper ore. This end is still in a beautiful elvan, new price for driving 44. 15s. per fm. We would remark that our cost for some magnitude.

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past has been increased beyond its regular amount, by fixing plunger-lift at the deep aditivele, changing rods from the perpendicular to the diagonal, cutting ground for V-bob at the commencement of the underlie of the shaft on the course of the lode, putting in balance-bob at the surface, &c. We are happy to say that everything is now in good working order, and we shall be sinking with greater rapidity than heretofore, and our cost will be considerably reduced, whilst at the same time the developement of the mine will be vigorously proceeded with. The quantity of ground sunk in the engine-shaft in the past month (4 fins.) is a proof of the better position we are now in for exploring in depth, which is the point of most vital importance, and from which we expect the most favourable results—in fact, a dividend-paying mine.

SOUTH CRENVER.—E. Chegwin, Jan. 22: The sumpmen have been repairing the shaft as the water is forking, which is now down to the back of the 94; we expect to get to the bottom of the mine at the end of the week.—South Mine: We have cut the copper lode in the 51 cross-cut south about 6 in. wide, with spots of copper ore and mundic, but not to value. The ground in the cross-cut is hard for driving.

SOUTH DOLCOATH AND CARNARTHEN CONSOLS.—W. Roberts, Jan. 23: In the 80 cross-cut north the ground continues much the same as it has been for some time past—rather hard for driving. In the adit east, on the caunter, no lode has been taken down lately; it continues 15 in. wide, and produces very rich stones of grey ore—good tribute ground.

SOUTH LADY BEETHA.—R. Unsworth, Jan. 23: In the 40 cast the lode is from 2

south the special stores for the last the local stores of grey ore—good tribute ground.

SOUTH LADY BERTHA.--R. Unsworth, Jan, 23: In the 40 east the lode is from 2 to 3 ft. wide, composed of spar, peach, and copper, worth from 1 to 2 tons of ore per fm., with every appearance to make a course of ore shortly. The stopes in back of the 40 are worth 2 tons of copper ore per fathom. In the 40 east, on south lode, the lode is small, spotted with ore, nothing to value. The lode is in a very unsettled state. As we have to meet several cross-courses in a few fathoms, we must not expect much improvement before we get clear of them. No alteration to notice in any other part of the mine.

ST. DAY UNITED.—Elsha Raiph, Jan. 21: The prospects in these mines are much the same as for some time past. We have cut the lode in the 114 fm. level, at Trevivian's, which is producing good stones of tin, but cannot ascertain its value, as we have only opened about 1 ft. of the lode. Our sale of tin last Saturday fell short, in consequence of the severe weather in the begining of the week, but we hope to make up the loss in our next sale.

in our next sale.

ST. 1YES WHEAL ALLEN.—II. Taylor, Jan. 24: The 50, east and west of Giesler's flat-rod shaft, looks much the same as last week. The 40 east has not yet intersected the lode; in the 40 west the lode is 12 inches wide, producing tin, but not to value; the stopes are yielding very well; the lode is 12 inches wide, producing tin, but not to value; the 20, east of Louisa's shaft, is 9 in. wide, worth 10t, per fin. There is nothing new in the adit east, nor in the adit north of Highburrow shaft. The lift has been got to work in the winze below the 40, and the water is drained 7½ fins. We hope to clear up and drain to bottom by the latter part of next week.

drain to bottom by the latter part of next week.

TEES SIDE.—R. Bray, Jan. 23: We are now driving on the north side of Hardshin's lode, and carrying the north string with us it is inclining to the lode; when it falls into the lode I think it will serve as a feeder, and improve it on the junction, as I believe we are not far distant from cutting it. The vein that was cut to the north is still producing fine strings of ore, and there is a change in Hardshin's lode, from a hard white spar to a very fine brown spar, blende, with spots of ore. The intersections are looking promising, and the lodes will be productive in the Tyne bottom limestone above.

promising, and the lodes will be productive in the Tyne bottom limestone above. TOLCARNE.—The lode at Field's engine-shaft, sinking below the 20, is 2 feet wide, consisting of gossau, spar, and ore, yielding 1½ ton of ore per fathom. The lode in the 20 end, cast of shaft, is 2 it. wide, consisting of gossau and soft spar—kindly lode. The lode in the 20 end, west of shaft, is small and unproductive. The lode in the 10 end, cast of shaft, is 18 in. wide, yielding 1½ ton of ore per fathom, and is promising for further improvement. The lode in the 10 end, west of shaft, is 16 in. wide—unproductive. The lode in the adit end, east of the shaft, is 1 fir. wide—unproductive. The lode in the adit east, on Chegwin's lode, is 14 in. wide, consisting of gossan. In the adit end east, on the tin lode, it is 5 ft. wide, worth about 50t, per fathom for tin.

east, on Chegwin's lode, is 14 in. wide, consisting of gossan. In the adit end east, on the tin idet, it is 5 ft. wide, worth about 50t, per fathom for tin.

TREFULACK UNITED.—Thos. Hodge, Jan. 23: 1 hope to get the engine-shaft cut down and made secure as deep as the water is drained this week, which is 22 fathoms below the adit; here we intend to put in bearers and clatern and fix a standing-life. Wood shaft is cut down and made secure about 11 fathoms below surface. The western shaft will be secured as far as the 16 fathom lovel this week, after which we shall commence to clear the 16, west from this shaft, at once. At Wheel shaft we have commence to clear the 16, west from this shaft, at once. At Wheel shaft we have commenced to clear and secure the 16 west. I hope to see the 26 dry in about a month from this time, when we shall be able to set several pitches on tribute. Several men have applied for pitches in the bottom of the 16, but we shall not be able to set any tribute for this month. We are not yet in a position to draw the stuff.

TRELOWETH.—T. Richards, Jan. 19: The 134 end is extended east of Cole's 3 fms. 3 ft.; at present yielding 1½ ton, worth 10t, per fm. The 134 end; satended west of Cole's, is extended 18 ins.; the lode is yielding 1½ ton, worth 84, per fm. The 124 end, east of Cole's, is extended 18 ins.; the lode is yielding 1½ ton, worth 84, per fm. The 124 end, east of Cole's, is extended 18 fm. level, east of Cole's, in the lode. In the 116, east of the 124, cast of ditto, is worth 154, per fm. The stope in the back of the 124 ton, worth 84, per fm. The stope in the back of the 124 end; as of Cole's, is worth 150, per fm. The stope in the back of the 124 end; as of Cole's, is worth 204, per fm. The stope in the back of the 124 end; as of Cole's, is worth 204, per fm. The stope in the back of the 164, east of Cole's, is worth 204, per fm. The stope in the back of the 164, east of Cole's, is worth 204, per fm. The 90, east of Giesler's engine-worth 104, per fm. One engine is working seven

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ne-shaft is nth. The nd a little level east rey copper lode in the w price for haft is 3 ft. ed on with a west from vork. We letting the as possible.

east of Cofe's, is worth 20t. per fin. The stope in the back of the 116, east of winze, is worth 10t, per fin. Our engine is working seven strokes per minute.

TRENCROM.—R. Hollow, F. Bennetts, Jan. 23: In the 90, east of Giesler's engine-shaft, the lode is worth 2t. 10s, per fin.; set to drive by four men, at 50s, per fin. In the 90, west of the engine-shaft, the lode is worth 3t. 10s, per fin.; set to drive by four men, at 50s, per fin. In the 80, east of the engine-shaft, the lode is worth 3t. Per fin.; set to drive by four men, at 80s, per fin. In the 10s in back of the 80, west of the engine-shaft, the lode is worth 3t. Per fin.; set to drive by four men, at 80s, per fathom. In the rise in back of the 80, west of the engine-shaft, the lode is not to value; set to drive by two men, at 50s, per fin. In the 70, east of the engine-shaft, the lode is not to value; set to drive by two men, at 50s, per fin. In the 60, east and west of the cross-cut north-east of the engine-shaft, the lode is not to value; set to drive by two men, at 50s, per fin. In the 60 cross-cut south, east of the engine-shaft, there is no change; set to drive by two men, at 50s, per fin. In the 60 cross-cut south, east of the engine-shaft, there is no change; set to clear by two men, at 40s, per fin. In the 40, east of the engine-shaft, the lode is worth 2t, per fin. In the 3t, east of the engine-shaft, the lode is worth 2t, be rin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, per fin. In the 10s, east of the engine-shaft, the lode is worth 4t, per fin. In the 10s, east of the engine-shaft, the lode

bode is worth 44, per fin.; set to sink by four men, at 90s, per fin. In Michel's flat-rod shaft, sinking below the 10, the lode is worth 64, per fin.; set to sink by eight men, at 154, per fin. There are 26 men on tribute, at from 6s. to 11s. in 14.

TRETOIL.—W. Pascoe, Jan. 16: Mine Park shaft is sunk 43 fins, below the surface, 15 per fin. In the east of which Mine Park it in lode is formed; the adit level, which is about 33 fms. below surface, is 12 fms. cast of Mine Park shaft; the lode for the first 6 or 7 fms. is from 12 to 15 ft. wide, beyond this it is not so large or regular, and the end for the last 9 ft. is in country to the north of the lode; the back of this level is stoping by six men, which is yielding a large quantity of low quality tinwork. The 10 is 15 fathoms east of Mine Park shaft, the first 5 fathoms of which are in country to the south of the lode; from this point to within 9 or 10 ft. of the end the level is driven on the lode, which varies from 10 to 15 ft. ein width, composed of chlorite, mundle, and magnetic iron ore, with thin intermixed, worth from 184. to 200, per fms. In the 20, about 80 fms. west of engine-shaft, a crosseut is driven 35 fms. south from the engine lode which has intersected Mine Park lode. The 20 is driven 15 fathoms east of the cross-cut is driven 35 fms. south from the engine lode which has intersected Mine Park lode; this level produced a little stamping work, but not of much value, and the last 3 or 4 fms. are disordered by spar branches: 9 fms. behind the end a rise is being put up, and will be communicated to the 10 in about two months from this date; the rise is principally in the country to the north of the lode, but in the last 7 or 8 ft. the lode has been cut into about 5 ft.; it is much of the same character as in the 10, and worth for that width 6 ft. 12 L2 per fm.; this rise when holed will greatly facilitate the future workings of the mine, as it will be a main pass for the cheaper discharge of the stuff, well very many than a subject of the lode; t

UNITED MINES.—J. Tucker, Jan. 23: The drawing lift is fixed in the 48 fm. level, the water taken up, &c. I hope we are now in a position to sink about 6 ft. per week. There is no change to notice in the tribute pitches. The weather is again fine, and we are proceeding with our dressing satisfactorily. We hope to sample before our next payday something like 3½ tons of tin.

are proceeding with our dressing satisfactorily. We hope to sample before our next paydag something like 3½ tons of tin.

VALE OF TOWY.—A. Waters, S. Harper, Jan. 22: Clay's engine-shaftmen are sinking below the 90, ground much is usual. In the 90, driving south of the great cross-course, the lode is 2½ feet wide, with spots of lead ore and blende mixed throughout, but at present not to value. The ground were is dipping south allowed the 50 the dip was north) about 2 feet] in 6 feet, and we are of opinion that the ore is dipping south also; a week or ten days more will prove this matter. No change in the 80, driving north of this shaft, for some time past. In the 80, driving south of Fleid's shaft, the lode is very much improved, now yielding splendid lumps of lead ore, and saving work throughout. We have not been able to see the 70 end, south of Fleid's, for the month, being full of stuff. The trammond is laid, and we are now making headway in the respect mentioned. Tom's winze continues productive, and will open good tribute ground. In the 80, driving north of Bonville's shaft, we have a very fine-looking lode, composed of barytes, carbonate of lime, and lead ore, improving; this end is now about 2 fms. behind Woodcock's winze. In Woolcock's winze, sinking below the 70, north of Bonville's shaft, the lode is 3 feet wide, opening profitable ground. In the 70, driving south of No. cross-coarse south of said shaft, the lode is 4 feet wide, yielding saving work for lead ore. The tribute department is much as usual. The weather continues favourable for our dressing openions.

WENTNOR.—J. Kneebone, Jan. 24: Potter's lode, in the 35 fm. level, is about 8 in. wide, producing occasionally stones of ore. The end is still very hard, wet, and spare for driving. The No. 3 lode, in the 35 fm. level east, is 18 in. wide, composed of capiel and spar for the greater part, but is still without ore. The ground is hard, and the lode is letting out a large stream of water. The end west on this lode is supended, and the lode is le

WEST SHARP TOR.—W. Richards, Jan. 23: We have about 3½ feet more to sink to reach the 150, and as the ground is continuing favourable for progress, we shall accomplish that by to-morrow week. We are, I believe, through the lode in the 138 crosscut in the back of the end, there being some grantle in sight; it will, however, be advisable to extend the cross-cut 2 or 3 feet further south before we drive cast and west

WEST SNATLBEACH.—Jas. Richards, Jan. 24: The 64, driving west on the north lode, presents the same appearance as for some time past. In the same level, driving east on the south lode, there is no alteration to notice. The shaftmen are busily engaged in cutting the plat, or lodge, previous to sinking.

in cutting the plat, or lodge, previous to sinking.

WEST TREVELYAN.—J. D. Osborn, Jan. 19: Cater's engine-shaft men have completed fixing the lift, &c., at the 48 fm. level, and we have resumed sinking the shaft. The winzes sinking below the 38 west is improved, and worth for copper ore 184, per fm. All other places are as last reported.

WEST WENDRON CONSOLS.—R. Kendall, Jan. 19: We have set the wheel-shaft to sink 9 ft., and cut cistern-plat for the sum of 201., and the 10 fm. level to drive east at 21. 10s. per fm. The lode is yielding very rich stones of tin. If we have favourable weather we shall complete the walls of the engine-house next week. All other work is progressing as fast as possible.

progressing as fast as possible.

WEST WHEAL MARGARET.—Capls. Uron and White, Jan. 22: Hallett's engine-shaft is down to the 20, and we have commenced to drive cast and west; the lode in both of these ends is 18 in. wide, yielding some rich stones of tin. We hope to lay open some good tin ground here shortly. All other points are much the same as when last reported.

WHEAL AGAR.—WM. Roberts, Jan. 23: In the 80 cross-cut south no lode cut yet. The 70 west produces good stones of ore; the lode is 3 ft. wide. In the 70 cast the lode has not been taken down for the last week. The 60 west has improved a little; the lode is now 1 ft. wide, producing atones of good ore—saving work. Other parts remain nearly the same as last reported.

the same as last reported.

WHEAL ARTHUR.—F. C. Harpur, T. Carpenter, Jan. 22: Old Lode · In the 10 fm level, west of shart, the lode is now about 2 ft. wide, consisting of quarts, tron, and mundic, intermixed with ore; this end is approaching the shoot of ore ground we passed through in the adit level over. The lode in the adit end, on the same lode, is from 2 to 3 ft. wide, carrying mundic, peach, prian, and quartz, with occasional stones of ore, presenting, on the whole, a more favourable appearance than for some time past.—Watson's Lode: Here we have no material change to inform you of. The stopes in the back of the allt are producing some good stones of tim. We have just commenced sinking a winze below the bottom of this level, to communicate with the stopes above the back of the 20 fm. level, for the joint purposes of ventilation and to facilitate our progress in taking away the lode. The lode in the stopes in the back of the 20 fm. level are composed principally of peach, intermixed with tin. We are getting on as fast as we can with the dressing department.

dressing department.

WHEAL CREBOR.—J. Gifford, Jan. 20: The 48 is set to drive west on the north lode, at 61. 10s. per fm., by six men, for 3 fms.; the lode is 2 ft. wide, with spots of mundic and copper ore, but not to value. The 48 to drive east, on the south lode, at 41. per fm. for 4 fms; the leader part of the lode 2 ft. wide, producing good stones of copper ore, and promising improvement. I have never seen such a kindly lode since I have been on the mine. A pitch is set in the back of the 34, on the old workings, by three men, for one, two, or three months, at 13s. 4d. tribute. Cock's shaft is down 5 fms. 3ft. below the 48. The lode in the bottom is 2½ ft. wide, yielding good stones of copper ore, but not to value—a very promising lode. The mine is altogether looking at the present very kindly.

wHEAL CUPID.—R. Pryor, Jan. 19: There is no change to notice in the 65 fm. level east of shaft; the ground is a little more favourable for driving than last reported. Th lode in the 54 fm. level, east of shaft, is 3½ ft. wide, and has a more promising appear ance to-day than for some time, it will produce full ½ ton of ore per fm. No particula alteration has taken place in the 40 fm. level during the last week; this end is abou 18 fms. behind the 54.

alteration has taken place in the 40 fm. level during the last week; this end is about 18 fms. behind the 54.

WHEAL DAMSEL.—R. Pryor, H. Harvey, Jan. 18: Since our last report we have succeeded in clearing the timber and stuff in John's shaft between the 20 and 30 fm. levels, and dropped the lift 5 fms. below the 30 fm. level; the water is now forked 26 fms. under the deep addit, and we expect to have the 30 fm. level drained during the ensuing week, at which point we shall at once put four men to clear, and to see what ground can be discovered to set on tribute or tutwork. To the eastern part of the sett, and east of the great county cross-course, we have a large piece of unexplored ground, more than 136 fms. in length, and a shaft sunk within 7 ft. of our eastern boundary, to the 110 fm. level under the deep adit, and the water drained 90 fms. under the same, which is about 130 fms. from surface (and having the advantage of a small cross-course at this shaft to drive cross-cuts on at the different levels to cut and explore the south todes that we have in junction with the killias and granite; we consider the chances of success to be very good, and have every reason to believe that if there is a whim erected on this shaft, and cross-cuts put out from the same, we same, we shall very shortly open up a valuable plee of ground, for a small outlay. We have nothing particular to set to-day, but shall push on the forking of the water, and the different important points as fast as possible, and at the same time strongly recommend carrying out our suggestions in erecting a whim on the shaft before referred to.

WHEAL EDWARD.—M. H. East, Jan. 19: The improvement in the 61 received.

referred to.

WHEAL EDWARD.—M. H. East, Jan. 19: The improvement in the 61 west looks very well indeed; the end is worth fully 40t, per fm., and from present appearances the lode will further improve. This is a very important improvement, and, therefore, acting under the sense of duty, 1 beg to take the liberty of reminding the adventurers that this discovery is met with in the right direction, being in the western ground, and there is a great extent of sett—about 400 fms. from the present end, at the 61, to the western boundary line. It is also worthy of special remark that the 71 is approaching a point where a great improvement may be reasonably looked for, and that in a few months the 50 will also reach the ore ground discovered in the 61; and the 52 west, on the north lode, can be brought on to the parallel ground. All the other points in the mine are much the same as last reported.

as last reported. - M. H. East, Jan. 22: The improvement in the 61 west continues, lode 6 ft. wide worth fully 40% per fm.

orought on to the parallel ground. All the other points in the mine are much the same as last reported.

— M. H. East, Jan. 22: The improvement in the 61 west continues, lode 6 ft. wide, worth fully 40t. per fin.

WHEAL FRANK MILLS.—T. P. Nicholls, J. Cornish, Jan. 23: The west part of the lode, which we have intersected in the 84 north, is disseminated throughout with ore, but not sufficient to value as yet, however, judging from its highly promising appearance, we shall soon have a valuable lode in this end. The 72 north has met with a branch of ore embedded in white iron and quarts, but the ground being rather stiff about it, and not having opened much on its course as yet, we are unable to set any value on it. The 60 northermost cross-cut east the now been driven through the lode about 7 fma., without meeting any east wall; the lode still consists of friable quartz, white iron, and stones of lead ores, and is a very kindly lode. The ground in the cross-cut east towards the east lode is without alteration since our last report. The 45 end north is looking well, and the part of the lode we are carrying will yield from 8 to 10 cvts. of lead ore, with indications of further improvement. In the 60 south, on the east lode, there is no change to notice. The stopes in back of 72 are not looking, on the whole, quite so good as they were. Colmer's stope, in back of the 60, is holed to the bottom of the 45, and the lode looks exceeding well going up in the back of the last-mentioned level. We effected a communication with the air-shaft and rise yesterday. This shaft is now continues perpendicularly to the 72, and at the northermost extremity of the mine. Thus our operations here are now well ventilated, which is of the greatest importance.

WHEAL GRENVILLE.—G. R. Odgers, Jan. 19: There is no alteration in the lode in the engine-shaft since my last advice. In the 100 weat the lode is 1 ft. wide, and looking kindly. We have not yet holed the winze in the 90 east; the lode in the 90 east; the lode in the 90 east is nearl

151. per fathom.

WHEAL HARRIETT.—S. Williams, Jan. 19: The lode in the engine-shaft is without any change. In sinking we are making good progress. The lode in the 100 end continues to be worth for tin and copper ore 501, per fm. The stopes throughout the mine are the same in appearance as for some time past. I have set four men to drive a cross-cut north to cut the tin lode in the 99 fm. level. The lode in the 30 east end is 1½ foot wide, producing stones of ore. The lode in the deep adit end is 1 ft. wide, producing atomes of into which we have driven 16 feet. I hope very soon something will be found in this and that will be remunerative.

WHEAL HENRY.—F. Pryor, Jan. 23: In accordance with your request, we have put the engine and boiler in thorough repair, cleared and secured the deep and shallow adits (the latter for condensing water), fixed house water-lift, and made the same complete, the former for the purpose of discharging the water, which will be pumped by the engine: thoroughly cased and divided the shaft 20 fathoms below the sdit, but in footengine; the former or the purpose of inscianging the water, which with the pumpose of the engine will be shaded by the engine will be shaded by the engine would have been working before but for the delay of the founders and the bad state of the weather. We shall be ready for work in a few days, when we shall confine ourselves to the following objects—to sink the engine-shaft from the 50 to the 70; after this is completed for ventilation, as well as to draw the stuff, we shall open on the three copper lodes which have produced very large quantities of ore in Wheal Mald; and, from what we can see of them here, they present good appearances. I would here remark that after this shaft is completed to the 70 our engine will at once be dispensed with for pumping and applied for drawing, for which purpose it is adapted. We shall at once open on a very large and fine-looking tin lode at the adit and other levels. From all we can see of this lode we expect large returns from a small outlay. In adhering to this mode of working, we have no hesitation in saying that it is not only a good speculation, but one that will at an early period give the shareholders as well as ourselves entire satisfaction.

WHEAL MARGERY.—R. James, J. Benbow, W. Rogers, Jan. 23: Wellesley's en-

that it is not only a good speculation, but one that will at an early period give the sharcholders as well as ourselves entire satisfaction.

WHEAL MARGERY.—R. James, J. Benbow, W. Rogers, Jan. 23: Wellesiey's engine-shaft and its neighbourhood are poor.—American: In the 100 fm. level west no lode has been taken down since our last report, worth 181, per fm. for copper ore. In the 90 east the lode is much improved, and worth 161, per fm. In No. 3 winze, in bottom of the 80 east, the lode is worth 161, per fm. The pitches are without change.

WHEAL LUDCOTT.—R. Knapp, Jan. 24: There is no change to notice in any part of the mine since the meeting. Our progress since that time has been unavoidably show. In addition to the very severe weather of late, we have had other difficulties to contend with. The water in the 84 broke through the lode recently intersected there, and carried everything before it completely, filling thelevel and part of the shaft, doing considerable injury to the pumping gear. A series of other accidents has followed, so that the greater portion of our time and attention has been occupied by those things instead of working the mine in the usual way. I am happy, however, to add that the mine and machinery are again in good working order, and the men have returned to their regular places, and also that the greatest inconvenience which will result from the accidents is the loss of time to the extent of two or three weeks.

WHEAL MARY ANN (near Liskeard).—P. Clymo, H. Hodge, J. Harris, J. Stevens, Jan. 23: The cross-cut in the 170 is extended 17 fathoms towards the lode. In the 160 north the lode is 1½ ft. wide, worth 4t. per fm.; in the same level south it is 2ft. wide, worth 7t, per fm. In the 140 north its 2 ft. wide, worth 6t. per fm.; in the same level, south of Clymo's shaft, it is 3 feet wide, worth 6t, per fm.; in the law, worth 9t, per fm. In the 140 north its 2 ft. wide, worth 9t, per fm. In the 140 north its 2 ft. wide, worth 9t, per fm. In the 140 north its 2 ft. wide, worth 9t, per fm.

men have completed coasing and dividing the shaft from the 140 to the 150, and have essential stalling under the 150. The atopse and pitches are producing much as usual. We seld on the 15th int. two pareids of old not 15th, companied 75 tons, to Mears. Soline, Willyams, had Oo, at 87, 88, 60, per ton.

WHEAL MAY EMMA.—W. Dools, Jan. 25: Since the last meeting the work has been chiefly confined to driving and atopine. I am happy to say in taking down the lade been chiefly confined to driving and atopine. I am happy to say in taking down the lade are arrived on with that spirit, they ought to be good returns of the will be made the easing summer. I should strongly recommend the work now carrying on to be continued. WHEAL SEISON.—A, Angroy, Jan. 21; to morth lode we have to charge taken down a shall cales out the 22 tim. Invested and, which was driven by the former company.

WHEAL SEISON.—A shappy and the property of the contribution of the continued. WHEAL SEISON.—A contact of peach and capel, containing about 7 ewts. of the per 100 seats a shall cales out the 22 tim. Invested and, which was driven by the former company.

WHEAL SEISON.—A shappy and the shall return the contribution of the continued. It is a present divided into two peach to a house the state of the contribution of the co

rod shaft the lode is 2 feet wide, worth 10s, per line.
without alteration.
WHEAL WREY CONSOLS.—P. Clymo, W. Hancock, M. Whitford, Jan. 24: The
sumpmen having fixed the lift and done the other work connected therewith in the 10s,
have now commenced sinking the engine-shaft under the level. There is no alteration
in the 10s, either north or south, since last report. The lode in the 96 north is 2% feet
wide, producing 7 cwts. of lead per fin.; in the same level south it is 2 feet wide, preducing 4 cwts. of lead per fin. In the 84 north it is 3 ft, wide, producing 9 cwts. of lead,
per fin.; in the same level south it is 3% ft. wide, producing 7 cwts. of lead per fin. In
the 76 north it is 2 ft. wide, producing 5 cwts. of lead per fin. The stopes and pitchess
are producing much as usual.

the 76 north it is 2 ft, wide, producing 5 owts, or lead per fm. The stopes and pitches are producing much as usual.

WORVAS DOWNS.—R. Harry, Jan. 22: All our operations, both underground and at surface, are being proceeded with as fast as possible. The boiler is in its place, and the masons are actively engaged in building the flues. The engineers and shaftmen are making good progress in their various departments, and if things go on well, I see nothing at present to prevent us from getting the engine to work at the time stated in my last report.—Wheal Flat Lode: The stopes in back of the adit are not looking quite so well as usual, however, the ground continues favourable, and in all probability the lode will soon resume its former value. During the last six-or eight days the water has considerably abuted in the adit, and as soon as the reparing of Dunn's shaft is completed we shall be in a position to draw large quantities of stull staff to surface, and from which we hope to make good returns of tin.

YANNER.—J. Hampton. J. Medlen, Jan. 22: The 30 east, on the north lode, is worth

to make good returns of tin.

YARNER.—J. Hampton, J. Medlen, Jan. 22: The 30 east, on the north lode, is worth
full 50!. per fathom, and has every appearance of a lasting course of ore, looking healthy
and strong. Other places in the mine are without material alteration. We have commenced dressing operations again since the weather has been more favourable.

menced dressing operations again since the weather has been more invourable.

STEAM ON COMMON ROADS.—The superior character of the machinery manufactured by Mossrs. James Taylor and Co., of the Britannia Werks, Birkenbesch, has long been well known, and the recent trial of their new traction engine confirms the evidence, that as inventors they are entitled to a prominent position. A few days since a trial was made with one of Messrs. Taylor's steam-clephants, in which the various fin-provements upon traction-engines recently patented by them have been embodied. The engine which was tried was found to be capable of drawing heavy lodes up steep inclines with the greatest facility. A gradient fully equal to Holbern-hill was easily surmounted, and from the construction of the engine it is concluded that this is by no means a test of its maximum power. The engine itself weighs 8 tons, and has large whosis, broad in the periphery. It differs from all others in having the driving wheels in front, and the guiding it. The chimney has a spark catcher, and the steam is so nicely arranged, that the blast is scarcely heard. The engine in question is an eight-horse, but was found when drawing on level ground to exert a force equal to 30 horses. The trial was witnessed by several continental gentlemen, who had visited the works expressly for the purpose, and was unanimously pronounced to be especially adapted for drawing heavy loads at a regular draught horse pace, or lighter ones at a considerable speed.

BASTIER'S PATENT CHAIN PUMP.—A pump of most extraordinary

draught horse pace, or lighter ones at a considerable speed.

Bastier's Patent Chain Pump.—A pump of most extraordinary powers was tried on Friday and Saturday, on the Woodside Graving Dock Company's (Limited) premises, Birkenhead. The bore, only 4½ in., delivered, according to the calculations of several scientific gentlemen present, 500 gallons per unitude, or equal to 150 tensor per hour. The one exhibited is for the Wheat Concord Mine, South Sydenham, Ewrische, Devon, to fetch water from a depth of 300 ft.; the nine and shaft are now fail of water Amongst the gentlemen present we observed Mr. W. Jackson, M. F.; Mr. Callow, waterworks, Birkenhead; Mr. Wylle, Yauxhall Foundry; Mr. Charles Sanderson, engineer; Mr. Goorge Marrison, ditto: Mr. Betts, the eminent contractor; Mr. Waiter Scott, engineer, Tranmere Foundry; Messrs. J. Shephard and Co.'s foreman, and several other practical and scientific gentlemen, who all stated that they never saw so large a column of water pass through so small a tube in a given time. The method is applicable for a ship, or any other purposes, and Mr. Clayton has now one under coextraction for subject use, which, for chospness and quantity of water deliverable, cannot be equalled by any yet out. The pump will be at work again this day and to-morow, between the water than the property of the public are invited to inspect, and Mr. Bastier, the patentse, will be in attendance to give any explanation.—Liverpool Datty Post.

Lighton General Omnibus Company.—The traffic receipts for the

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for the week ending January 20, was 97061. 12s. 7d.

THAMES TUNNEL COMPANY.—Receipts for the week ending Jan. 19, 1451. 1s. 1d.; number of passengers, 34,813.

carried on above the adit, which, in the valley at the western part of the sett, is about 6 fins. deep, and in the eastern part 25 fathoms. On four ledes bearing about 16°, and a canner bearing 40° south of east, the whole having an underlie northward of about 18° in. a fathom; the canner of about 3 fi. north-eastward. The stratum is clay-state, of a stilky lustre, much of the same kind that some of the good tin mines in Cornwall have been found in. This clay-state is traversed by an eivan course of the sort good mines have often been worked in connection with. The sett is situated immediately to the south of North Wheal Robert and Wheal Franco, and about one mile, I think, west of the Dartmoor granite. The geological position is unexceptionable. The adit being now inaccessible, I could not examine the portions of lode which may remain unwrought above waiter level. I found, however, at surface a heap of tinstuff raised from and a rect left by the old tinners, which, by the usual test of vamning, showed as much tin as could be expected from such a position—4 fathoms from surface. The new shaft, sunk 18½ fms., is well situated for speedy development of the several lodes, and for the conveyance of the tin which may hereafter be drawn through it to the stamps. Waterpower, to a moderate extent, is available; first for sinking the new shaft to (say) 20 fms. below adit, and afterwards, if a steam-engine should be required, the water can be used for stamping. The ground is easy to work, readering the cost of making a trial comparatively little. With the present and prospective price of tin, I consider the mine to be worthy the attention of mine advanturers—holding out good prospects of success.

GARDEN MINE.—N. White, Jan. 23: Our engine-shaft is now down about 3 fms.

GARDEN MINE.—N. White, Jan. 23: Our engine-shaft is now down about 3 fms below the adit level; sinking by six men, at 94, per fm. and 5s. in 11. tribute; lode 2 ft wide, and improving in quality. The tributers in back of the adit are earning a fail living. The building of the engine-house and all other surface operations are progressing

wide, and improving in quality. The truthers in teach of the surface operations are progressing living. The building of the engine-house and all other surface operations are progressing very satisfactorily.

GARREG.—Wm. Sandoe, Jan. 23: In the 20, west of engine-shaft, the lode is 3 feet wide, composed of clay, carbonate of time, and lumps of lead ore occasionally, presenting a kindly appearance; the stope in the back of this level is much the same as when last reported on, yielding good dressing ore stuff. We have commenced driving from the engine-shaft north towards the old lode, by two men, which progresses satisfactorily.—gine-shaft north towards the old lode, by two men, which progresses satisfactorily.—gine-shaft north towards the old lode, by two men, which progresses satisfactorily.—gine-shaft north towards the old lode, by two men, which progresses satisfactorily.—gine-shaft north towards the old lode, by two men, which progresses satisfactorily.—gine-shaft north towards the olde, by two men, which progresses satisfactorily.—gine-shaft north towards the olde, by two men, which is progressed and have broken a little ore, but find the lode at this point. The disciplination of the 20 as quick as possible.

GAWTON.—G. Rowe, Jan. 19: We still continue to cross-cut through the lode in No.2 winze; it is laid open 4 ft., and not yet through the leader or ore-bearing part, which is more than 2 ft, wide, composed of placipally of quarts and good quality yellow coper ore, worth 2½ tons per fm. Judging from the present appearances, we have every reason the expect a valuable place of ore ground to be laid open at this point. The lode in the stopes in bottom of the 30 west is full 5 ft. wide, carrying a leader on the south wall from 2 to 3 ft. wide, principally composed of mundic and yellow copper ore, worth of the latter 2 tons per fm. The tribute pitches throughout the mine are yielding their usual quantity of ore, and looking kindly. We have had some little difficulty during the past week are parting and securing

of next week to be able to commence stoping, and if the lode continues to hold as good as at present we shall soon have large quantities of ore for sampling.

GREAT TWARNHALLE.—J. Hampton, J. Edwards, T. Hampton, Jan. 19: The men to-day are working in the 60, and we hope to be able to commence fixing the plunger-lift in that level shortly, which would be very advantageous when set to work. The winze in the bottom of the 60 is not so good at present, but that is, doubtless, a temporary change only. The same remark applies to the 60 west, but as we have cut the lode in the cross-cut orey a little further west than the end, it confirms our remark respecting the temporary change. Other places in this level are without material change. The Ocast, which was commenced poor three months ago, is now the best tode in the mine, and is likely to continue; a short cross-cut hout 2 fathoms long would greatly wentilate this end, and increase the speed in driving, besides other advantages. The pitches throughout the mine are looking much as usual, and they are producing a hir quantity of ore. The skip-road at James's shaft is completed to the 90, and during next week we shall begin to draw stuff therefrom for the first time. Supposing it is decided to cample in two months from the last sampling, we expect to have 400 cons for the market. The crusher is going on well, like all the rest of the machinery. The sheds over the dressing-floors are nearly completed, which is a very important thing. The walls of the dry-house are up, and it would have been covered in had the weather permitted.

GREAT WHEAL BADDERN.—J. Hampton, Jan. 19: Although the shaft is still hard and wet, we have set the shaft again at the former price. There is lead disseminated throughout the shaft, and when the ground, or elvan, gets softer, we anticipate a speedy improvement.

speedy improvement,

GREAT WHEAL BUSY UNITED.—J. Delbridge, Jan. 19: There is no charge in
the 120, or the engine-shaft. In Offord's shaft no change—water flowing freely from the
elvans; 110 no change, nor any water to notice. 100 stope yielding 6 tons of ore per
fathom; Levett's winze, 14 tons; 90 cast, 10 tons; 90 stopes, 11 tons per fathom. Marthew's shaft is worth 121, 30 cast, 71, 170 cast, 122, per fm. The 49 is poor. Tribute
ground in the 100 rise, west of Fleiding's. In the 90 west, below Moyle's bottoms, lode
ground in the 100 rise, west of Fleiding's. In the 90 west, below Moyle's bottoms, lode
sory kindly, saving work for thi and copper. In the 90 the old sump-winze is worth
61, per fm. In the 80, north of Wheal Hodge, no change. In the 50 west, rising against
Black Dog shaft, the lode is wide, containing stones of copper ore. The engine and
stamps are working well.

61. per fm. In the 80, north of Wheal Hodge, no change. In the 50 west, rising against Black Dog shaft, the lode is wide, containing stones of copper ore. The engine and stamps are working well.

GREAT WHEAL MARTHA.—H. Rickard, Jan. 23: The lode in the 40, east from engine-shaft, is a fine course of ore, better than we have ever seen before in any other part of the mine. The 40 west is without alteration; we shall commence taking down the crey part after this month. The ground by the side of the lode in the 30, both east and west of the rise, remains good for driving, and the men are making good progress; from present indications I have every reason to believe we shall have a good lode here as soon we commence cutting through it. We have holed the rise from the 20 to the 10, and the men are engaged in securing it, in order to bring away the tributors' work. The traurroad is completed at the 20, west from Thomas's shaft to the present end, and the end cleared out; we have resumed the driving of it, which I am glad to say is yielding fine work for copper ore. The tribute department, upon the whole, is yielding fair quantities of tin. We have sampled this day on the mine, computed, 200 tons of good quality, and have upwards of 100 tons undressed at surface and underground for want of room on the floors. The mine never looked so well as at present, and the new discovery which has so recently taken place in our bottom level has brought a great many people on the spot, who pronounced it be the br-st thing ever yet seen in the mine.

GREAT WHEAL VOR.—T. Gill, Jan. 22: Metal engine-shaft is sunk about 14 feet below the 142, and we expect to intersect the lode in about 9 ft. sinking. We intend to fix the lift in the cistern at the 142, and complete the drop-plat in the course of next month, when we shall commence sinking the shaft with all possible speed. In the 142, driving east of Metal engine-shaft, the lode, which is from 1½ to 2 ft. wide, is worth about 20, per fim. In the 122, driving west, the ground is now have

stone is more mineralised, when indicates state we have a considered and a

the fact of having such an improvement in the pitch in the back of the 30, just alluded to, a few fathoms ahead of this end, we fully expect that a discovery will be made in this direction. In the adit level, driving west at West Hawkmoor, on No. 3 lods, the lode is small; we expect to meet with the cross-course in this end shortly.

HERWARD UNITED.—T. Pierce, Jan. 24: The 45 yard level, west from Dunsford's shaft to the common: We are sinking a sump, at the end of this level, on the vein, and expect to drop on a bunch of lead ore overy day. The 55 yard level is without alteration since least reported upon; but in driving a few yards weat we expect to meet with the old Pant-y-Pydew vein. The 80 yard level, west of Dunsford's shaft, is in very promising ground, the vein at the forebreast being 2 feet wide, composed of spar, clay, and lumps of ore. In the 80 yard level, east of Dunsford's shaft, we have got through the knot at the forebreast; the vein in the bottom of the level is 15 inches wide, and at the roof about 6 inches, composed of spar, dufts, and lead ore. The stopes between the 55 and 80 yard levels are looking well, in a very promising ground.—Cresbie's Vein: No alteration here since my last report. We are going on very well with the washing.

HINGSTON DOWN CONSOLS.—T. Richards, Jan. 22: Morris's engine-shaft continues to produce some saving work. The 190 west produces occasional rich stones of ore. In the 110 cross-cut a small branch has been intersected, containing a little rich core; we hopg to reach the main part of the lode here shortly. The 100 west is without ore; we hopg to reach the main part of the lode here shortly. The 100 west is without ore; we hopg to reach the main part of the lode here shortly. The 100 west is without ore; we hopg to reach the main part of the lode here shortly. The 100 west is without ore; we hopg to reach the main part of the lode here shortly. The 100 west is without ore; we hopg to reach the main part of the lode here shortly. The 100 west is without ore; we hopg

of the mine.

HOLMBUSH.—R. Rryor, T. Woolcock, Jan. 22: We have nothing particularly new to inform you of since our last report. The 80, on the north lode, is improved: the lode to inform you of since our last report. The 80, on the north lode, is improved: the lode is 18 in. wide, producing good stones of copper ore; from the appearance we expect farther improvement. We have cut more water to-day in the 146, on the lead lode, which we hope will drain the 123 shortly, and will lay open some good tribute ground. We are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we intend to are still desuing the lode in the 50 west of winze, on flap-jack lode, which we have lode in the same lode, which we have lode in the same lode, which we have lode in the lode, which we have lode, which we have lode in the lode in the l

cated to the 70 it has very much improved the ventilation, so that the men are making good progress in the cross-cut north towards the lode. In the 60 east the lode is from 2½ to 3 ft. wide, composed of fluor-spar, quartz, mundic, and rich stones of copper ore, but not enough of the latter to value.

sood progress in the cross-cait north towards the lode. In the 00 east the loce is irodically to 3 ft. wide, composed of fluor-spar, quartz, mundie, and rich stones of copper ofe, but not enough of the latter to value.

KESWICK.—Jas. Foatlethwaite, Jas. 19: In the 20, north drift, the lode is worth 8 cwts. of lead ore per fin. Charles's rise is worth 12 cwts. per fin. Lancaster's stope is worth 6 cwts. per fan. In the 30, north drift, Charles's stope is worth 6 cwts. per fathorn. Hatchinson's stope is worth 6 cwts. per fin. Greenwood's rise is worth 12 cwts. per fathorn. In the 40, north drift, west vein, the lode is worth 12 cwts. of lead ore per fin. Hollady's stope is worth 6 cwts. per fin. Greenwood's rise is worth 12 cwts. per fin. The 10 cwts. per fin. Spark's stope is worth 10 cwts. per fin. Spark's stope is worth 10 cwts. per fin. Hollady's stope is worth 10 cwts. per fin. Hollady's stope is worth 10 cwts. per fin. Hollady's stope is worth 10 cwts. per fin. Holladys stope is worth 10 cwts. per fin. The third of the latter of the shaft, continues to yield a good mixture of lead ore. In the cross-cut going east from shaft, continues to yield a good mixture of lead ore. In the cross-cutse, and have again, what helieve to be, the lode going east in its propur course, underlie, &c., and although at present small, no more than 1 ft. wide, it produces fine stones of lead ore up and down the end of precisely the same nature as formerly, and from present appearances I judge the lode will open wider, and turn out well, when we get a little more off the influence of the cross-course, but will still produce from 15 cwts. to 1 ton of ore per fathom. We have commenced dressing, and should the weather keep favourable I hope to prepare a small parcel of ore for the sale in a fertilight's time.

MOLLAND.—T. Bennetts, Jan 23: We have finished sinking the shaft below the 52 for a fork. The lode in the bottom of the shaft is about 1 ft. wide, composed chiefly of quartz, with good spots of ore; this I think augurs well for

a winze on a kindly lode, producing 1 ton of ore per fm. This winze is over some old backs in the \$2.

NANTEOS AND PENRHIW.—H. Boundy, W. Paull, Jan. 23: Eystumtean: The stopes in back of the adit, east of No. 3 rise, are without any change to notice, worth 15 cwts. of ore per fm. In the level, driving west of No. 2 rise, the lode is large, and contains mundle, blende, and a little ore. In Resce's level east the lode is still disordered and poor. Rowe's level, driving west of No. 1 rise, on the north or bearing part of the lode, has not been taken down since last reported. The level in ditto, driving west of No. 3 rise, on south part of the lode, is a little improved, yielding at present 12 cwts. of ore per fm. The stopes in back of the level are yielding 12 cwts. of ore per fm.—Iwichgwyn: The 30 cast is letting out more water than usual, but the lode still unproductive. The tribute pitches are looking just as usual. The wheel-pit is completed, and nearly all the wheel delivered on the mine. We shall proceed at once with its crection, and no time will be lost in getting it to work. The frost has again disappeared, and we have commenced our dressing and surface operations.

NETHER HEARTH.—Wm. Vlpond, Jan. 18: Since writing you we have got a little further into the vein in the end. The lodes looking more kindly, and mixed throughout with fine pieces of solid ore. Altogetia y, I thinks it looks very promising with the limestone now on, and the vein producing ore. I hope we have nothing to do now but to push forward and open out a good mine.

— Mr. Robinson, Jan. 24: 1 beg to inform you I was at Nether Hearth yesterday; the new vein they cut on Friday last looks promising. They took a beautiful stone of ore out of it yesterday below adit, about 4 stone weight; the ore is best going dow a, and is embedded in a beautiful matrix of fluor-spar and jack. I believe it will prove to be a new vein; at any rate, whether new or old, we have a run of near a mile of it, with Than Sasett.—T. Glanville, G. Davey, Jan. 23: Tutwor

is embedded in a beautiful matrix of fluor-spar and jack. I believe it will prove to be a new vein; at any rate, whether new or old, we have a run of near a mile of it, with it Tyne bottom limestone above adit, and one shaft in progress to prove the deeper sills. I have sent the above sample to the office; you will get it about Saturday or Monday.

NORTH BASSET.—T. Glanville, G. Davey, Jan. 23: Tutwork Setting: The flat-rod shaft to sink below the 142 by nine men, at 44. 10s, per fm. the lode is 2½ ft. wide, yielding good stones of copper ore. The winze to sink below the 132, east of the flat-rod shaft, by four men, at 44. 10s, per fm. the lode is 2½ ft. wide, yielding good stones of copper ore. The vinze to sink below the 132, east of the flat-rod shaft, by four men, at 64. 10s, per fm.; the lode, which we have now cut through, is 2 ft. wide, worth 104. per fm. for th. The winze to sink below the 122 by four men, at 154, per fm.; the lode is 4 ft. wide, worth 54. per fathom; the 122 by four men, at 154, per fm.; the lode is 4 ft. wide, worth 55. per fm. for tin. The 102 to drive west of Lyie's shaft by six men, 22f. per fathom; the lode is 5 ft. wide, principally spar. The 25 to drive west of Grace's shaft by four men, at 54, per fathom; nothing has been done in this level since last reported on, in consequence of the increase of water. We have so far drained the level as to get in the end, but we find the coming water much more than we anticipated. The 82 to drive west by four men, at 164, per fathom; the lode is 18 in. wide, composed of peach and mundle. The 82 cross-cut to drive south by four men, at 25f. per fm. The 62 to drive west by fwo men, at 114 flos. per fathom; the lode is 4 ft. wide, composed of spar and spots of yellow copper ore. The 52 cross-cut to drive north by four men, at 14. per fathom.

NORTH BLLER,—J. B. Delbridge, Jan. 19: We have cut the south part of the south of the north shaft by four men, at 14. per fathom.

NORTH BLLER,—J. B. Delbridge, Jan. 19: We have cut the south part of the l

lode is 3½ ft. wide, 1 foot of which is well charged with fine native copper, but not enough to value. We have about 2 fms. more to sink to reach a 60, when we think of opening on the lode both east and west, and cross-cutting south.

NORTH LAXEY.—R. Rowe, Jan, 22: The lode in the 27 end is about 2 feet wide, and is still worth I ton of ore per fm:, we are straightening the winze, or new shaft, holed to this level, to take the new line of rods for pumping the water out of the new engine-shaft below the 27. The varying, or crooked, underlie of the lode (as noticed by Mr. Williamson) is the cause of this, but will not be long in hand.

NORTH MINERA.—W. T. Harris, Jan. 24: I have just come up from underground, and, on the whole, I consider our prospects at Pugh's never looked hetter. In Charles's shaft, sinking below the 25 yard level, we have a solid branch of lead, 6 in. wide, from shaft, sinking below the 25 yard level, we have a solid branch of lead, 6 in. wide, from shaft, sinking below the 25 yard level, we have a solid branch of lead, 6 in. wide, from shaft, sinking below the 25 yard level, we have a solid branch of lead, 6 in. wide, from shaft, sinking below the 25 yard level, we have a solid branch of lead, 6 in. wide, from shaft, sinking below the 25 yard level, we have a solid branch of lead, 6 in. wide, from shaft, sinking below the 25 yard level, we can safely calculate upon another 10 fms. in extent of very productive ground. In the 35 yard level, driving east, the lode is of a very promising character, and at present producing fally 3½ tons of rich rore per fm. The cross-cut driving south in the 35 yard level, west of shaft, is producing about 2 tons of lead per fm. The falt in back of the 25 yard level, west of shaft, is producing 1½ ton of lead ore per fm. The cross-cut firtuing south in the 35 yard level is in fair ground for progress; the portion of the flat we are taking away in driving producing lead sufficient to jay for driving, or 10 cwts, of lead per fm. The falt in back of the 25 yard lev

NORTH WHEAL EXMOUTH.—W. Skewis, Jan. 19: In extending the 30 fm. level north from Hallett's engine-shaft, I am pleased to state that although nothing of value north from Hallett's engine-shaft, I am pleased to state that although nothing of value has up to now been met with, a considerable change has taken place in the present end, both in lode and stratum, the former being composed of quartz, mudle, and spots of lead, both in lode and stratum, the former being composed of quartz, mudle, and spots of lead, that leads me to expect an early improvement; the end is now set to drive by six men, that leads me to expect an early improvement; the end is now set to drive by six men, at 11. 15s. per fm. The prices of the sum of the sum

been able to dress about 6 tons, which will be sampled on Jan. 21.

NORTH WHEAL ROBERT.—J. Richards, Jan. 22: Murchison's Shaft: In the 50, cast of Jenkins's cross-cut, on No. 1 south lode, the lode is small and unproductive. In Elliott's cross-cut south, in the 50 west, on the main lode, the lode is small and unproductive. In Elliott's cross-cut south, in the 50 west, the ground is hard, and the progress is, consequently, alow. In the 50 west, on the main lode, the lode is 2 feet wide, and consists of quartz, mundic, and capels. This drivage is suspended, and the men removed to drive a cross-cut south in the 30, on the middle cross-course. In the 40 west, cast of Gorman's cross-cut, on No. 1 south branch, the branch is 9 in. wide, very promising, and is words cut south, in the 30, the ground is slow for progress. In the 30 west, and west of Edwards's cross-cut, on No. 1 south lode, the lode is 6 in. wide, and yields good stones of ore occasionally. In Crowle's winzs, sluking below the 30 west, and west of Edwards's cross-cut, on No. 1 south lode, the lode is 18 in. wide, and yields good stones of ore occasionally. In Crowle's winzs, sluking below the 30 west, and west of Edwards's cross-cut, on No. 1 south lode, the lode is 18 in. wide, and worth for the length of sink (9 ft.) 2 tons of ore per fm. In Weymouth's rise, in back of the 30 west, casto claik (9 ft.) 2 tons of ore per fm. In Weymouth's rise, in back of the 30 west, casto claik (9 ft.) 2 tons of ore per fm. In the west, on the middle cross-course, for intersection of No. 1 south branch, which in the 40 below is looking so promising. The trial shaft: In the 40 west, on No. 2 south lode, the lode is 18 in. wide, and worth for his part of the progress.—Trial Shaft: In the 40 west, on No. 2 south lode, the lode is 18 in. wide, and yields ground for progress.—Trial Shaft: In the 40 west, on No. 2 south lode, the lode is 18 in. wide, and yields good stones of ore occasionally. In the 40 east, on No. 2 south lode, the lode is 18 in. wide, and yields good st

33 the lode is 2 ft. wide, composed of flookan, white prian, soft fluor-spar, a little mundic, and spots of lead ore, and presents every indication for producing ore in driving under the hill and also in depth. We have suspended operations in the 23; the whim will have full employment to keep the stuff from the shaft and lower level. The wheel and the machinery are working well, and keeping the water with case.

OKEL TOR.—(Telegram).—B. Collom, Jan. 25: An important discovery in the 80; lode increasing, yielding full 10 tons of ore per fathom.

OKEL TOR.—(Telegrams).—S. Collotts, Jan. 20: An important discovery in the 80; lode increasing, yielding full 10 tons of ore per fathors.

OLD TOLIGUS UNITED.—G. Reynolds, Jan. 21: We are making all the necessary arrangements for the fixing of the lift below the 72. The ground in the 52 cross-cut is still highly mineralised, and letting out more water than before. All the other departments throughout the mine are without change since our last report. We have sampled this month 80 tons of fair quality tinstuff, and hope to increase the returns soon.

PEDN-AN-DREA.—W. Tregay, J. Thomas, Jan. 19: Engine-shaft: The water is in fork, and sluking resumed. In the 100 cast the lode is 2 ft. wide, poor. In the 100, east the lode is 2 ft. will be to continue atoping back west behind the level, consequently our proper course will be to continue atoping back west behind the level, consequently our proper course will be to continue atoping back west behind the level, consequently our proper course will be to continue atoping back must be 100, per fin. In the 90, west end, the lode is 8 ft. wide, poor. In the rise in back of this level the lode is 2 ft. wide, poor. In the winze in bottom of this level he lode has improved, now worth 181, per fathom. In the 60 west we find the lode is very promising, and yielding some fair quality intentiff.—Cobbler's: The lode in the bottom of this shaft is worth 101, per fm. In the 68 cast the lode is large and poor. The 68 west is worth 61, per fm. The 47, west rise, is yielding coarse tinstuff.

PENDEEN CONSOLS.—Wm. Eddy, J. Warren, Jan. 19: We beg to band you our

is yielding coarse tinstuff.

PENDEEN CONSOLS.—Wm. Eddy, J. Warren, Jan. 19: We beg to hand you our monthly report:—The 118 north is driven 4 fms. 1 ft. 10 in., we have not taken down any lode for the month, but the western side has a good appearance. In the 118 south the men have been engaged in taking down a bargain of a lode, which has tarned out the men have been engaged in taking down a bargain of a lode, which has tarned out the men have been engaged in taking down a bargain of a lode, which has tarned on back of the 118; lode yielding 6 tons of ore per fathom. The 106 south is driven 3 fms., lode large, and of a very promising character; we shall be able to report to you next week its value. The 106 north is driven 1 fathom, and a large bargain of lode taken down; lode now 2 feet wide, and worth 12?, per fm. The stopes in the back of the 106 are yielding 3 tons of ore per fathon, worth 101, stoping for 3?. We have set our sumpahaft to sink and fork to etc.

PENHALDARVA.—S. A. Pore. Jan. 19: We have intersected the great lode in the

shaft to sink and fork to cut.

PENHALDARVA.—S. A. Pops, Jan. 19: We have intersected the great lode in the 90 west, where the leader part is about 6 in. wide, composed of soft spar, mundic, and spotted with lead. The 10 cross-cut east, in about 22½ fms. ground, is letting out more water, but no lode or branch yet cut. No alteration in any other bargains, there being so lock taken in down either since my last.

no loch taken in down either since my last.

PRIDEAUX WOOD.—J. Rich, P. Rich, Jan. 21: The lode in Kendall's shaft, sinking under the 64 fm. level, is 4 ft. wide, but is disordered by a horse of granite, and poor. In the 54 fm. level, east of Kendall's shaft, the lode is 2½ ft. wide, producing saving work for copper ore. In the 54 fm. level, west of Kendall's shaft, the lode is 1½ ft. wide, containing a little tin. In the 44 fm. level, east of Kendall's shaft, the lode is 3 ft. wide, yielding nearly 1½ ton of copper ore per fm. In the 24 fm. level, east of Treffry's shaft, the lode is 2½ ft. wide, containing mundle and copper ore, but disordered at present by the cross-course.

pleasing nearly 1% ton or copper ore per Im. In the 24 fm. level, cast of Treffry's shaft, the lode is 2½ ft. wide, containing mundle and copper ore, but disordered at present by the cross-course.

PROSPER UNITED.—J. Hosking, Jan. 23: In bringing up our deep drain we have driven through two fine eivan courses, the last 6 fathoms thick; since being through it 20: 3 fms, Jwe have discovered apparently a very promising lode, never before seen in the mines, composed of rich looking gossant; it is a regular cannter lode, bearing about 350 south of east, and intersects all the other lodes and elvans, and may turn out to be a screat requisition to this property. We shall sink a few fathoms on it at once, so far as ever can go for the water; we cannot, of course, yet speak of it as of any valuable importance, but still I thought it advisable to inform you of it.

—W. H. Martin, Jan. 24: I beg to say that the adit from the valley has been opened, and brought up over 300 fathoms and made secure, in which we have passed through two elvan courses, and this week have intersected a new lode, which was never before discovered in the sett; it is composed of quartz, soft gossan, and prian, very kindly in appearance, and likely to prove a good appendage to the main lodes. There are several other new lodes to be intersected in pursuing this adit. We are driving the adit both east and west to communicate with Hoskings's engine-shaft, which we hope to accomplish next month. The house and stack for the blast-engine is completed, and the engine (an S-in. cylinder) will soon be at work. A large portion of Louisa's pumping-engine has been received, the heavy parts of which we are putting together preparatory to fixing them in the house. The masons are now making good progress with the buildings, and the earpenters busily engaged preparing the woodwork for the erections.

PROVIDENCE.—W. Hollow, Jun., T. Anthony, P. Rogers, Jan. 23: Higgs's Shaft: No. 3 carbona is worth 304, per fim. No. 4 carbona is worth 704, per fim. No. 2 stope is wo

on tutwork.

REDMOOR.—T. Taylor, Jan. 21: In the 80 west, on Johnson's, the lode is about 3 ft. wide, containing a quantity of mundic and quartz, and worth about 71. per fm. for tin; set to six men, at 71. per fm. The stopes in the back of this level are worth about 61. per fathom, set at 31. The lode in the 70 west is about 2½ ft. wide, mixed with a very hard capel, worth about 61. per fm.; set to four men, at 61. 5s. per fm. The former stopes in the back of this level are now set on tribute at 8s., and 12s. in 11., and four men in the back of the 60 at 12s. The 40 cast, on Johnson's, is worked by four men, at 50s. per fm. driving at 11s. tribute.

back of the 60 at 12s. The 40c tast, on Johnson's, is worked by four men, at 50s. per findriving at 11s. tribute.

RHEIDOL.—Capt. Ridge, Jan. 16: Rhurruggus deep adit level west has been driven through two pipes of lead; the first pipe, which was 1 m. in; length, we cut 5 fathoms west of cross-cut; the second pipe was about 2 fms. in length, and intersected about 13 fms. west of cross-cut; the second pipe was about 2 fms. in length, and intersected about 13 fms. west of cross-cut; the lead continues in small branches, now and then rising up the forebreats, and sometimes disappearing, the lode has not been taken down for the last 6 fms. I hope to accomplish this by Saturday next. We have cut into a good pipe of blende going eastward, which will yield from 2 to 3 tons per fm., and the ground is easy for driving.

— Jan. 19: Since my letter of Jan. 16, we have taken down the lode in the west end of Rhurruggus deep adit level, which is 2 ft. wide, and is composed of spar, branches of lead and blende, but not to value; the end has a good appearance for further improvement. In the level, driving east, the lode is from 3 to 4 ft. wide, yielding from 2 to 3 tons of blende per fm.—Midway Level: The water having much decreased, we have resumed the sinking of the winze to communicate with the deep adit; the lode yields 2 tons of blende per fm.—In No. 1 stope, east of No. 6 rise, the lode is yielding from 2 to 3 tons of blende yellow of the winzer of the mand of wats. I have a severe frost for the past week has not as yet canabled the dressing operations to proceed. The carpenter is employed repairing barrows, and the blacksmith and dresser are engaged making fram-wagons. I very much regret there is not any mineral sent to market to meet the costs incurred, but time has not been all unprofitably spent, as there is a large quantity of overy stuff broken down no me very good stones of lead in Rhurruggus deep adit level west. It is my opinion the levels cast and west will pay well for working in time to come.

Ribber.—R. Nine

well for working in time to come.

RIBDEN.—R. Niness, Jan. 24: The sinking of Gilbert's shaft is pushing on as fast as ossible, and the lode is producing both copper and lead.

ROSEWARNE CONSOLS.—James Richards, Jan. 22: There is no alteration to notice in the 30 end, driving cast of the engine-shaft, since last report. The same with the 20, in the caunter lode. The 20, driving cast of Boorman's shaft, on the branch, is worth \$N\$, per fm. The stopes in the bottom of the adit, east of Hollow's shaft, are worth 71, per m. There is nothing new to report in any other part of the mine.

Mn. There is nothing new to report in any other part of the mine.

ROSEWARNE UNITED.—H. Woolcock, Jan. 24: In the 90, east of St. Aubyn's engine-shaft, the men are employed rising against Jenning's shaft; we hope to communicate this shaft in about a fortnight from this time, when we shall commence to drive east. In the 90 west the men are employed cutting down footway shaft; this we hope to complete in a fortnight from this time, and commence to drive west. In the 58, west of Richard's, the lode is large, impregnated with copper. In the 46, east of Lane's shaft, the lode is 3 ft. wide, at present unproductive. In the 34, east of Lane's shaft, the lode is 15 in. wide, with a very kindly appearance. In the 34, east of Bush shaft, the lode is 12 in. wide; with a very kindly appearance. In the 34, east of Bush shaft, the lode is 16 in. wide; with a very kindly appearance. In the 34, east of Bush shaft, the lode is 16 in. wide; with a very kindly appearance. In the 34, east of Bush shaft, the lode is 16 in. wide, producing a little ore. The tribute department is looking much the same as for some time past. We sampled on Tucsday last 79 tons of good quality ore.

SIGNORD CONSOLS.—Wm. Hoeking, Jan, 23: The progress in sinking the engino-

lode is 18 in. who, producing a reter of the sampled on Tuesday last 79 tons of good quality ore.

SIGPORD CONSOLS.—Wm. Hosking, Jan, 23: The progress in sinking the engineshaft is very satisfactory, being now down 6 fms. 2 ft. below the 14 fm. level. The lode
in the bottom of the shaft has taken a more vertical dip, underlying now about 6 in. in a
fathom; it is a very masterly and well-defined lode, being about 5 ft. wide, producing
copper ore throughout, and with every appearance of becoming more productive as we
proceed in depth. We have a very favourable change in the adit end, driving to intersect the north copper lode; the ground is very much easier for driving, and we are daily
cutting branches of copper, spar, and mundic, dipping towards the lode, and from the indications already seen there is not the slightest doubt but the result will be a good lode
when intersected. The present prospects of the mine are very encouraging; in fact, I
never saw the mine looking as well since the commencement. Since writing this morning we have broken down some of the lode at the engine-shaft, and I am happy to report
that it is looking exceedingly well; we have broken stones from it 20 lbs. weight each,
solid copper. The ground accompanying the lode is altogether changed for the better,
being of a light blue killas. The steam-engine is working well, and consuming about
24c eves of coals in 24 hours.

2½ cwts. of coals in 24 hours.
SILYER VEIN.—F. Squire, Jan. 24: Since Friday I have been enabled to proceed safely with the reduction-works, and trust shortly to have the pleasure of announcing their completion. Notwithstanding the unfavourable weather during the greater part of the time since my last communication, upwards of 200 tons of ore have been raised from the recent workings, and, from the state of the silver-bearing lodes at this time, hundreds and hundreds of tons could be readily obtained by employing more labour, From our present arrangements at the reduction-works, about 60 tons per month may be treated. In that large quantity, from an analysis made, I am not aware of any cause to prevent a large and highly satisfactory result for silver. Some of the ores are very rich; others, of course, run unequal.
SOFTRIDGE CONSOLS.—James Richards, Jan. 22: Hitchina's Engine_shaft; In the

rich; others, of course, run unequal.

SORTRIDGE CONSOLS.—James Richards, Jan. 22: Hitchins's Engine-shaft: In the
50 fm. level east, west of Crews' cross-cut, on the south part of the main lode, the lode
is improved, being at present worth 1½ ton of ore per fm. In the 40 east, on No. 2 south
lode, the lode is showing improvement, and is worth ½ ton of ore per fm. The ground
is also become much easier for exploration. In Dunn's rise in the back of the 40 east,
on No. 2 south lode, the lode is also improved, being at present worth 1½ ton or ore per
fathom. There is no alteration in any other part of the mine.

warans cross-cut, on No. 1 south lode, the lode is 18 in. wide, and yields good stones of ore occasionally. In Crowle's winze, sinking below the 30 west, and west of Edwards's pross-cut, on No. 1 south lode, the lode is 18 in. wide, and worth for the length of sink plt.) 2 tons of ore per fin. In Weymouth's rise, in back of the 30 west, east of Edwards's cross-cut, on No. 1 south lode, the lode is 18 in. wide, and worth for the length of sink plt.) 2 tons of ore per fin. In Weymouth's rise, in back of the 30 west, east of Edwards's cross-cut, on No. 1 south lode, the lode is worth 1½ ton of ore per fathom. In the 10 west, the ground is easy for driving; this driving; the driving; the driving; the silvage is mappended for the present, and the men removed to drive a cross-cut south, in the 30 west, the ground is easy for driving; this driving; the silvage is slow is looking so promising. The trial shaft is in regular course of sinking below the 22, in favourable ground for progress.—Trial Shaft: In the 40 west, on No. 2 south lode, the lode is 48 in. wide, and morthly and the men removed to drive a cross-cut south, in the 40 west, the cross-cut south, in the 40 west, on No. 2 south lode, the lode is a slo improved, being at present worth 1½ ton of ore per fathom. There is no alteration in any other part of the mine.

SOUTH CONDURROW.—Joc., Ivian, Wm. Thomas, Jan. 21: The engine-shaft is moved over 6 ins. below the 15 fm. level, having sunk 4 fms. in the past month. The lode in the same low of 6 ms. below the 15 fm. level, having sunk 4 fms. in the past month. The lode in the same law of 6 ms. below the 15 fm. level, having sunk 4 fms. in the past month. The lode in the same law of 6 ms. below the 15 fm. level, having sunk 4 fms. in the 40 west, east of 4f. wide, composed of spar and gossan, peach price for sinking is 14i. per fm. In the 15 fm. level is believe to 15 fm. level, having sunk 4 fms. in the 40 west, and 4f. wide, composed of spar and gossan, and inpregnated with grey copper ore. The lode in the deep s

past has been increased beyond its regular amount, by fixing plunger-lift at the deep adit level, changing rods from the perpendicular to the diagonal, cutting ground for V-bob at the commencement of the underlie of the shaft on the course of the lode, putting in balance-bob at the surface, &c. We are happy to say that everything is now in good working order, and we shall be sinking with greater rapidity than heretofore, and our cost will be considerably reduced, whilst at the same time the developement of the mine will be vigorously proceeded with. The quantity of ground sunk in the engine-shaft in the past month (4 fms.) is a proof of the better position we are now in for exploring in depth, which is the point of most vital importance, and from which we expect the most favourable results—in fact, a dividend-paying mine.

SOUTH CRENVER,—E. Chegwin, Jan. 22: The sumpmen have been repairing the shaft as the water is forking, which is now down to the back of the 94; we expect to get to the bottom of the mine at the end of the week.—South Mine: We have cut the copper lode in the 51 cross-cut is outh about 6 in. wide, with spots of copper ore and mundic, but not to value. The ground in the cross-cut is hard for driving.

SOUTH DOLCOATH AND CARNARTHEN CONSOLS.—W. Roberts, Jan. 23: In

not to value. The ground in the cross-cut is hard for driving.

SOUTH DOLCOATH AND CARNARTHEN CONSOLS.—W. Roberts, Jan. 23: In
the 50 cross-cut north the ground continues much the same as it has been for some time
past—rather hard for driving. In the adit east, on the caunter, no lode has been taken
down lately: it continues 15 in. wide, and produces very rich stones of grey ore—good

is flotte ground.

SOUTH LADY BERTHA: -R. Unsworth, Jan. 23: In the 40 cast the lode is from 2 to 3 ft. wide, composed of spar, peach, and copper, worth from 1 to 2 tons of ore per fm., with every appearance to make a course of ore shortly. The stopes in back of the 40 are worth 2 tons of copper ore per fathom. In the 40 east, on south lode, the lode is small, spotted with ore, nothing to value. The lode is in a very unsettled state. As we have to meet several cross-courses in a few fathoms, we must not expect much improvement before we get clear of them. No alteration to notice in any other part of the mine.

ST. DAY UNITED.—Elisha Ralph, Jan. 21: The prospects in these mines are much the same as for some time past. We have cut the lode in the 114 fm. level, at Trevivinia, which is producing good stones of tin, but cannot ascertain its value, as we have only opened about 1 ft. of the lode. Our sale of tin last Saturday fell short, in consequence of the severe weather in the begining of the week, but we hope to make up the loss in our next sale.

quence of the severe weather in the begining of the week, but we hope to make up the loss in our next sale.

ST. IVES WHEAL ALLEN.—II. Taylor, Jan. 21: The 50, east and west of Giesler's flat-rod shaft, looks much the same as last week. The 40 cast has not yet intersected the lode; in the 40 west the lode is 12 inches wide, producing tin, but not to value; the stopes are yielding very well; the lode is 12 in. wide, worth 5t, per fm. The lode in the 20, cast of Louisa's shaft, is 9 in. wide, worth 10t, per fm. There is nothing new in the adit cast, nor in the adit north of Highburrow shaft. The lift has been got to work in the winze below the 40, and the water is drained 7½ fms. We hope to clear up and drain to bottom by the latter part of next week.

TEES SIDE.—R. Bray, Jan. 23: We are now driving on the north side of Hardshin's lode, and carrying the north string with us it is inclining to the lode; when it falls into the lode 1 think it will serve as a feeder, and improve it on the junction, as I believe we are not far distant from cutting it. The vein that was cut to the north is still producing fine strings of ore, and there is a change in Hardshin's lode, from a hard white spar to a very fine brown spar, blende, with spots of ore. The intersections are looking promising, and the lodes will be productive in the Tyne bottom limestone above.

TOLCARNE.—The lode at Field's engine-shaft, sinking below the 20, is 2 feet wide, consisting of gossan, spar, and ore, yielding 1½ ton of ore per fathom. The lode in the 20 end, east of shaft, is 2 ft. wide, consisting of gossan and soft spar—kindly lode. The lode in the 20 end, wast of shaft, is a small and unproductive. The lode in the 10 end, east of shaft, is 18 in. wide, yielding 1½ ton of ore per fathom, and is promising for further improvement. The lode in the 10 end, west of shaft, is 16 in. wide—unproductive. The lode in the adit end, east of the shaft, is 17 in. wide—unproductive. The lode in the adit end, east of the shaft, is 17 in. wide—unproductive. The lod

east, on Chegwin's fole, is 14 in. wide, consisting of gossan. In the adit end east, on the tin fode, it is 5 ft. wide, worth about 50l, per fathom for tin.

TREFULACK UNITED.—Thos. Hodge, Jan. 23: I hope to get the engine-shaft cut down and made secure as deep as the water is drained this week, which is 22 fathoms below the adit; here we intend to put in bearers and cistern and fix a standing-life. Wood shaft is cut down and made secure about 11 fathoms below surface. The western shaft will be secured as far as the 16 fathom level this week, after which we shall commence to clear the 16, west from this shaft, at once. At Wheel shaft we have commence to clear the 16, west from this shaft, at once. At Wheel shaft we have commenced to clear and secure the 16 west. I hope to see the 26 dry in about a month from this time, when we shall be able to set several pitches on tribute. Several men have applied for pitches in the bottom of the 16, but we shall not be able to set any tribute for this month. We are not yet in a position to draw the stuff.

TRELOWETH.—T. Richards, Jan. 19: The 123 end is extended east of Cole's 3 fms. 3 ft.; at present yielding 1½ ton, worth 10l. per fm. The 13d end is extended west of Cole's, is extended 15 ims.; the lode is yielding 1½ ton, worth 8l. per fm. The 12d end, vest of Cole's, on the north part, is extended 12 fms.; tole not to value. In the 116, east of Cole's, on the south large sinking below the 124 fm. level, east of Cole's, will yield 1½ ton, worth 8l. per fathom. The stope in the back of the 124 west, on the south part of the lode, is worth 15l. per fm. The stope in the back of the 124 west, on the south part of the lode, is worth 15l. per fm. The stope in the back of the 124 energy in the back of the 124 ener

back of the 121, cast of ditto, is worth 131, per fm. The stope in the back of the 124 west, on the south part of the lode, is worth 124, per fm. The stope in the back of the 124 west, on the south part of the lode, is worth 124, per fm. The stope in the back of the 116, cast of winze, is worth 104, per fm. Our engine is working seven strokes per minute.

THENCROM.—R. Hollow, F. Bennetts, Jan. 23: In the 90, east of Giesler's engine-shaft, the lode is worth 27. 10s, per fm.; set to drive by four men, at 50s, per fm. In the 90, west of the engine-shaft, the lode is worth 31, los, per fm.; set to drive by four men, at 50s, per fathom. In the rise in back of the 80, west of the engine-shaft, the lode is worth 31, per fm.; set to drive by four men, at 80s, per fathom. In the rise in back of the 80, west of the engine-shaft, the lode is worth 21. 10s, per fm.; set to drive by four men, at 50s, per fathom. In the 60, cast of the engine-shaft, the lode is not to value; set to drive by four men, at 50s, per fm. In the 60, cast and west of the cross-cut north-east of the engine-shaft, the lode is not to value; set to drive by two men, at 50s, per fm. In the 60 cross-cut south, east of the engine-shaft, the lode is not to value; set to drive by two men, at 50s, per fm. In the 60 cross-cut south, east of the engine-shaft, the lode is worth 21, per in.; set to drive by two men, at 60s, per fm. In the 60 cross-cut south, east of the engine-shaft, the lode is worth 21, per in.; set to drive by two men, at 60s, per fm. In the 60 cross-cut south, east of the engine-shaft, the lode is worth 21, per in.; set to drive by two men, at 60s, per fm. In the 60 cross-cut south, east of the engine-shaft, the lode is worth 22, per in.; set to drive by two men, at 60s, per fm. In the 60 cross-cut south, east of the engine-shaft, in the 10s of the engine-shaft, the lode is worth 22, per in. In the 60 cross-cut south, east of the engine-shaft, in the 10s of the engine-shaft, in the 10s of the engine-shaft, in the 10s of the engine-shaft, in

UNITED MINES.—J. Tucker, Jan. 23: The drawing lift is fixed in the 48 fm. level, the water taken up, &c. I hope we are now in a position to sink about 6 ft. per week. There is no change to notice in the tribute pitches. The weather is again fine, and we are proceeding with our dressing satisfactorily. We hope to sample before our next payday something like 3½ tons of tin.

day something like 3½ tons of tin.

VALE OF TOWY.—A. Waters, S. Harper, Jan. 22: Clay's engine-shaftmen are sinking below the 90, ground much as usual. In the 90, driving south of the great cross-course, the lode is 2½ feet wide, with spots of lead ore and blende mixed throughout, but at present not to value. The ground here is dipping south (above the 80 the dip was north) about 2 feetly in 6 feet, and we are of opinion that the ore is dipping south also; a week or ton days more with prove this matter. No change in the 80, driving north of this shaft, for some time past. In the 80, driving south of Field's shaft, the lode is very much improved, mow yielding splendid lumps of lead ore, and saving work throughout. We have not been able to see the 70 end, south of Field's, for the mouth, being full of stuff. The transcal is laid, and we are now making headway in the respect mentioned. Tom's wines continues productive, and will open good tribute ground. In the 80, driving north of Bonville's shaft, we have a very fine-looking lode, composed of barytes, carbonate of lime, and lead ore, improving; this end is now about 2 fms. behind Wool-cock's winze. In Woolcock's winze, sinking below the 70, north of Bonville's shaft, the lode is 3 feet wide, opening profitable ground. In the 70, driving south of No. cross-course south of said shaft, the lode is 4 feet wide, yielding saving work for lead ore. The tribute department is much as usual. The weather continues favourable for our dressing operations. The tribute departm dressing operations.

dressing operations.

WENTNOR.—J. Kneebone, Jan. 24: Potter's lode, in the 35 fm. level, is about 8 in. wide, producing occasionally stones of ore. The end is still very hard, wet, and spare for driving. The No. 3 lode, in the 35 fm. level cast, is 18 in. wide, composed of capel and spar for the greater part, but is still without ore. The ground is hard, and the lode is letting out a large stream of water. The end west on this lode is suspended, and the crosscut south resumed again; ground hard for driving.

The engine and pitwork are in good working condition.

westing condition.

WEST SHARP_TOR.—W. Richards, Jan. 22: We have about 3½ feet more to sink to reach the 150, and as the ground is continuing favourable for progress, we shall accomplish that by to-morrow week. We are, I believe, through the lode in the 138 crosscut in the back of the end, there being some grantie in sight; it will, however, be advisable to extend the cross-cut 2 or 3 feet further south before we drive east and west

on the course of the lode. There is no change in the character of the part of the lode now being cut into in No. 4 cross-cut, in the 110 west.

WEST SNATLBEACH.—Jas. Richards, Jan. 24: The 64, driving west on the north lode, presents the same appearance as for some time past. In the same level, driving east on the south lode, there is no alteration to notice. The shaftmen are busily engaged in cutting the plat, or lodge, previous to sinking.

WEST TREVELYAN.—J. D. Osborn, Jan. 19: Cater's engine-shaft men have completed fixing the lift, &c., at the 46 fm. level, and we have resumed sinking the shaft. The wince sinking below the 38 west is improved, and worth for copper or 18?, per fm. All other places are as last reported.

WEST WENDRON CONSOLS.—R. Kendall, Jan. 19: We have set the wheel-shaft to sink 9 ft., and cut cistern-plat for the sum of 20t., and the 10 fm. level to drive east 32, 10s, per fm. The lode is yielding very rich stones of tin. If we have favourable weather we shall complete the walls of the engine-house next week. All other work is progressing as fast as possible.

progressing as fast as possible.

WEST WHEAL MARGARET.—Capts. Uren and White, Jan. 22: Hallett's engineshaft is down to the 20, and we have commenced to drive east and west; the lode in both
of these ends is 18 in. wide, yielding some rich stones of tin. We hope to lay open some
good tin ground here shortly. All other points are much the same as when last reported.

WHEAL AGAR.—WM. Roberts, Jan. 23: In the 80 cross-cut south no lode cut yet.
The 70 west produces good stones of ore; the lode is 3 ft. wide. In the 70 east the lode
has not been taken down for the last week. The 60 west has improved a little; the lode
is now 1 ft. wide, producing stones of good ore—saving work. Other parts remain nearly
the same as last reported.

the same as last reported.

WHEAL ARTHUR.—P. C. Harpur, T. Carpenter, Jan. 22: Old Lode: In the 10 fm. level, west of shaft, the lode is now about 2 ft. wide, consisting of quartz, iron, and mundle, intermixed with ore; this end is approaching the shoot of ore ground we passed through in the adit level over. The lode in the adit end, on the same lode, is from 2 to 3 ft. wide, carrying mundle, peach, prian, and quartz, with occasional stones of ore, presenting, on the whole, a more favourable appearance than for some time past.—Watson's Lode: Here we have no material change to inform you of. The stopes in the back of the adit are producing some good stones of tin. We have just commenced sinking a winze below the bottom of this level, to communicate with the stopes above the back of the 20 fm. level, for the joint purposes of ventilation and to facilitate our progress in taking away the lode. The lode in the stopes in the back of the 20 fm. level are composed principally of peach, internixed with tin. We are getting on as fast as we can with the dressing department.

WHEAL CREBOR—L Glifford Jan. 20. The 48 to act to drive work the worth.

dressing department.

WHEAL CREBOR.—J. Gifford, Jan. 20: The 48 is set to drive west on the north lode, at 61. 10s. per fm., by six men, for 3 fms.; the lode is 2 ft. wide, with spets of mundle and copper ore, but not to value. The 48 to drive each, on the south lode, at 41. per fm. for 4 fms; the leader part of the lode 2 ft. wide, producing good stones of copper ore, and promising improvement. I have never seen such a kindly lode since I have been on the mine. A pitch is set in the back of the 34, on the old workings, by three men, for one, two, or three months, at 12s. 4d. tribute. Cock's shaft is down 5 fms. 3 ft. below the 48. The lode in the bottom is 2\frac{1}{2} ft. wide, yielding good stones of copper ore, but not to value—a very promising lode. The mine is altogether looking at the present very kindly.

wHEAL CUPID.—R. Pryor, Jan. 19: There is no change to notice in the 65 fm. level cast of shaft; the ground is a little more favourable for driving than last reported. The lode in the 54 fm. level, east of shaft, is 3½ ft. wide, and has a more promising appearance to-day than for some time, it will produce full ½ ton of ore per fm. No particular than the staken place in the 40 fm. level during the last week; this end is about 16 fms. behind the 54.

Is fims, behind the 54.

WHEAL DAMSEL.—R. Pryor, H. Harvey, Jan. 18: Since our last report we have succeeded in clearing the timber and stuff in John's shaft between the 20 and 30 fm. levels, and dropped the lift 5 fms. below the 30 fm. level; the water is now forked 26 fms. under the deep addt, and we expect to have the 30 fm. level; the water is now forked 26 fms. under the deep addt, and we shall have to fix a plunger-lift. This shaft is still in good condition. The erection of the whim at Foxe's shaft is completed, and the shaft cleared to the 20 fm. level, where we shall at once put four men to clear, and to see what ground can be discovered to set on tribute or tutwork. To the eastern part of the sett, and east of the great county cross-course, we have a large piece of unexplored ground, more than 136 fms. In length, and a shaft sunk within 7 ft. of our eastern boundary, to the 110 fm. level under the deep addt, and the water drained 90 fms. under the same, which is about 130 fms. from surface (and having the advantage of a small cross-course at this shaft to drive cross-cuts on at the different levels to cut and explore the south lodes that we have in junction with the kilias and granite); we consider the chances of success to be very good, and have every reason to believe that if there is a whim erected on this shaft, and cross-cuts put out from the same, we shall very shortly open up a valuable piece of ground for a small outlay. We have nothing particular to set to-day, but shall push on the forking of the water, and the different important points as fast as possible, and at the same time strongly recommend carrying out our suggestions in erecting a whim on the shaft before referred to.

referred to.

WHEAL EDWARD.—M. H. East, Jan. 19: The improvement in the 61 west looks very well indeed; the end is worth fully 40t, per fm., and from present appearances the lode will further improve. This is a very important improvement, and, therefore, acting under the sense of duty, 1 beg to take the liberty of reminding the adventurers that this discovery is met with in the right direction, being in the western ground, and there is a great extent of sett—about 400 fms. from the present end, at the 61, to the western boundary line. It is also worthy of special remark that the 71 is approaching a point where a great improvement may be reasonably looked for, and that in a few months the 50 will also reach the ore ground discovered in the 61; and the 52 west, on the north lode, can be brought on to the parallel ground. All the other points in the mine are much the same as last reported.

— M. H. East, Jan. 22: The improvement in the 61 west continues; lode 6 ft. wide, worth fully 40t. per fm.

as last reported.

— M. H. East, Jan. 22: The improvement in the 61 west continues; lode 6 ft. wide, worth fully 40f. per fm.

WHEAL FRANK MILLS.—T. P. Nicholls, J. Cornish, Jan. 23: The west part of the lode, which we have intersected in the 64 north, is disseminated throughout with ore, but not sufficient to value as yet, however, judging from its highly promising appearance, we shall soon have a valuable lode in this end. The 72 north has met with a branch of ore embedded in white iron and quartz, but the ground being rather stiff about it, and not having opened much on its course as yet, we are unable to set any value on it. The 60 northernmost cross-cut east has now been driven through the lode about 7 fms., without meeting any cast wall; the lode still consists of friable quartz, white iron, and stones of lead ores, and is a very kindly lode. The ground in the cross-cut east towards the east lode is without atteration since our last report. The 45 end north is looking well, and the part of the lode we are carrying will yield from 8 to 10 cmts. of lead ore per fm., with indications of further improvement. In the 60 south, on the east lode, there is no change to notice. The stopes in back of 72 era not looking, on the whole, quite so good as they were. Colmer's stope, in back of the 60, is holed to the bottom of the 45, and the lode looks exceeding well going up in the back of the last-mentioned level. We effected a communication with the air-shaft and rise yesterday. This shaft is now continues perpendicularly to the 72, and at the northermmost extremity of the mine. Thus our operations here are now well ventilated, which is of the greatest importance.

WHEAL GRENVILLE.—G. R. Odgers, Jan. 19: There is no alteration in the lode in the engine-shaft since my hast advice. In the 100 west the lode is 1 ft. wide, and looking kindly. We have not yet holed the winze in the 90 east; the lode in the 90 winth, which we expect also to hole next week, and which will lay open a piece of orey ground. There has been no lo

161. per fathom.

WHEAL HARRIETT.—S. Williams, Jan. 19: The lode in the engine-shaft is with out any change. In sinking we are making good progress. The lode in the 100 end con tinues to be worth for tin and copper ore 501, per fm. The stopes throughout the min are the same in appearance as for some time past. I have set four men to drive a cross cut north to cut the tin lode in the 99 fm. level. The lode in the 30 east end is 1½ for wide, producing stones of ore, and from the appearance of the ground to-day, we are though the cross-course into which we have driven 16 feet. I hope very soon something will be found in the day that will be represented.

WHEAL HENRY.—F. Pryor, Jan. 23: In accordance with your request, we have put the engine and boiler in thorough repair, cleared and secured the deep and shallow adits (the latter for condensing water), fixed house water-lift, and made the same complete, the former for the purpose of discharging the water, which will be pumped by the engine; thoroughly cased and divided the shat 20 fathoms below the adit, put in foot

shareholders as well as ourselves entire satisfaction.

WHEAL MARGERY.—R. James, J. Benbow, W. Rogers, Jan. 23: Wellesley's engine-shaft and its neighbourhood are poor.—American: In the 100 fm. level west no lode has been taken down since our last report, worth 181, per fm. for copper ore. In the 90 east the lode is much improved, and worth 151, per fm. In No. 3 winzs, in bottom of the 80 east, the lode is worth 151, per fm. The pitches are without change.

the 80 cast, the lode is worth 151, per fm. The pitches are without change.

WHEAL LUDCOTT.—R. Knapp, Jan, 24: There is no change to notice in any part of the mine since the meeting. Our progress since that time has been unavoidably slow. In addition to the very severe weather of late, we have had other difficulties to contend with. The water in the 84 broke through the lode recently intersected there, and carried everything before it completely, filling the level and part of the shaft, doing considerable injury to the pumping gear. A series of other accidents has followed, so that the greater portion of our time and attention has been occupied by those things instead of working the mine in the usual way. I am happy, however, to add that the mine and machinery are again in good working order, and the men have returned to their regular places, and also that the greatest inconvenience which will result from the accidents is the loss of time to the extent of two or three weeks.

WHEAL MARY ANN (near Liskeard).—P. Clymo, H. Hodge, J. Harris, J. Stevens. Jan. 23: The cross-cut in the 170 is extended 17 fathoms towards the lode. In the 160 north the lode is 1½ ft. wide, worth 41, per fm: in the same level, south is 2 ft. wide, worth 74, per fm: in the same level, south of Clymo's shaft, it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 84, per fm. In the 140 north it is 2 ft. wide, worth 94, per fm. There is nothing new in the 110, south of the slide. Clymo's shaft,

men have completed casing and dividing the shaft from the 140 to the 150, and have resumed sinking under the 150. The stopes and pitches are producing much as usual. We sold on the 15th inst, two parcels of lead ore; No. 1, computed 75 tons, to Mesars. Robert Michell and Son, at 231, 16s, per ton; and No. 2, computed 54 tons, to Mesars. Sims, Willyams, and Co., at 81, 8s. 6d. per ton.

sold on the 15th inst. two parcels of lead ore; No. 1, computed 75 ions, to Messrs. Hobert Michell and Son, at 231, 16s. per fon; and No. 2, computed 55 tons, to Messrs. Sims, Willyams, had Co., at 81.8s. 6d. per ton.

WHEAL MARY EMMA.—W. Doble, Jan. 23: Since the last meeting the work has been chiefly confined to driving and stoping. I am happy to say in taking down the lode in the past week it produced fine rocks of tin, and have every reason to believe, if things are carried on with that spirit, they ought to be good returns of tin will be made the ensuing sammer. I should strongly recommend the work now carrying on to be continued.

WHEAL NELSON.—J. Angove, Jan. 21: On north lode we have to-day taken down the branch, and find it very rich for tin; this lode is making rich deposits of tin. We shall clear out the 22 fm. level east, which was driven by the former company.

WHEAL NORRIS.—J. Nance, Jan. 19: The lode in the present bottom of east shaft is 20 in. wide, and consists of peach and capel, containing about 7 cwts. of tin per 100 sacks; this shaft is sinking by six men, at 150s, per 6m. The No. 3 lode in the adit end cast is at present divided into two parts by a horse; the north part is fair quality tinstuff, but the south is very coarse. We have intersected in driving the north cross-cut a branch of lode 18 in. wide, composed of quartz and exide of iron; this branch will no doubt form a part of No. 2 lode at a greater depth. We have cut the shaft-bob fixed at the fiat-rod shaft, and hope to get the rods, &c. attached for pumping in a few days, when we shall commence sinking on the course of the No. 3 lode below the adit level, where the lode is to 77 s. where we can get the greatest quantity of stuff for supplying the stamps. The engine and pumping apparatus attached at the engine-shaft works very satisfactorily, but in consequence of the severity of the weather the masons have not completed the boiler-house. We have covered the boiler and flues with a thick conting of earth to confine the heat.

— J.

the lode is very kindly. Watson's shaft has been sunk 6 ft.; this shaft is now 6½ fms. below adit, the lode is improving in alse, and the ground very good for sinking. I think in a short time we shall find the lode very productive; there is every appearance in the ground and lode to confirm this opinion. We are pushing on our surface work with all possible speed.

WHEAL SICILY.—J. Symons, Jan. 23: The engine-shaft is down about 15 fixthoms; our progress is slow in consequence of the ground being stiffer than heretofore, but I think it is only a floor, and hope we shall get through it shortly. We are anxious to get down to cut the lode, and there is every reason to believe the result will be profitable to the adventurers. The machinery is working well, but the water is very quick.

WHEAL SITHNEY AND CARNMEAL UNITED.—M. W. Martyn, W. Chappell, Jan. 21: At our monthly setting and apy, on Friday last, we set the following bargains:—Wheal Sithney engine-shaft to sink below the 45, by eight men, I fm., for 201; when this is done we shall fix the lift and penthouse, and set the lift, or 10 fms., to sink. The 45 fm. level to drive east of cross-cut, by four men, for one month, at 54, per fm.; the lode is 16, wide, yielding some good stones of tin. The 45 to drive west of cross-cut, by six men, for one month, at 54, 10s, per fm.; the lode is 2 ft. wide, with an increase of water issuing therefrom, and the lode more kindly than heretofore. The 25 west to drive by six men, for one month, at 54, 10s, per fm.; the lode is 4 ft. wide, a very kindly end. The 15 west to drive by four men, for one month, at 54, 10s, per fm.; the lode is 4 ft. wide, a very kindly end. The 15 west to drive by four men, for one month, at 54, 10s, per fm.; the lode is 4 ft. wide, and the second of the context, and will seen to six men, to hole, at 4ft. 10s, per fm.; the lode is 4 ft. wide, and the second of the context, and will seen to six men, to hole, at 4ft. 10s, per fm.; the lode of the context, and will seen to six men, to hole, at 4ft. 10s,

tribute pitches are looking favourable, and the men getting fair wages.

WHEAL UNITY CONSOLS.—W. H. Reynolds, Jan. 19: On Wednesday one of the joints in the main rod gave way, and the water being very quick, we have not seen the bottom of the mine since, but hope it will be in fork again by Monday at the 75. We have out into the cross look in the 65 west about 9 ft., and some splendid stones of ore are washed out of it. We think this an important point, and while the water is in the flat-rod shaft, the men are engaged cutting through this lode.

WHEAL UNION.—T. Glanville, Jan. 23: In the 40 cross-cut, north of the south lode, we have intersected a branch 6 in. wide, producing good work for tin. At the flat-rod shaft the lode is 2 feet wide, worth 154, per fm. The other parts of the mine are without alteration.

without alteration.

WHEAL WREY CONSOLS.—P. Clymo, W. Hancock, M. Whitford, Jan. 24: The sumpmen having fixed the lift and done the other work connected therewith in the 106, have now commenced sinking the engine-shaft under the level. There is no alteration in the 106, either north or south, since last report. The lode in the 96 north is 3½ feed wide, producing 7 cwts. of lead per fan.; in the same level south it is 2 feet wide, producing 4 cwts. of lead per fan. in the 84 north it is 34; twide, producing 9 cwts. of lead, per fan.; in the same level south it is 3½ ft. wide, producing 9 cwts. of lead per fan. In the 76 north it is 2 ft. wide, producing 9 cwts. of lead per fan. In the 76 north it is 2 ft. wide, producing 5 cwts. of lead per fan. The stopes and pitches are producing much as usual.

the 76 north it is 2 ft. wide, producing 5 cwts. of lead per fm. In step stone as usual.

WORVAS DOWNS.—R. Harry, Jan. 22: All our operations, both underground and at surface, are being proceeded with as fast as possible. The boiler is in its place, and the masons are actively engaged in building the flues. The engineers and shaftmen are making good progress in their various departments, and if things go on well, I see nothing at present to prevent us from getting the engine to work at the time stated in my last toport.—Wheal Flat Lode: The stopes in back of the adit are not looking quite so well as usual, however, the ground continues favourable, and in all probability the lode will so usual, however, the ground continues favourable, and in all probability the lode will be a position to draw large quantities of stull stuff to surface, and from which we hope to make good returns of tin.

YARNER,—J. Hampton, J. Medien, Jan. 22: The 30 sast on the nead to the contributed to the contribute of the property of the contributed to the contribute of the contributed to the contribute of the contributed to t

YARNER.—J. Hampton, J. Medien, Jan. 22: The 30 east, on the north lode, is worth full 50?. per fathom, and has every appearance of a lasting course of ore, looking healthy and strong. Other places in the mine are without material alteration. We have commenced dressing operations again since the weather has been more favourable.

WHEAL HENRY.—F. Pryor, Jan. 23: In accordance with your request, we have put the engine and boiler in thorough repair, cleared and secured the deep and shallow adits (the latter for condensing water), fixed house water-lift, and made the same complete, the former for the purpose of discharging the water, which will be pumped by the engine; thoroughly cased and divided the shaft 20 fathoms below the adit, but in footway, fixed pitwork, &c. Our engine would have been working before but for the delay of the founders and the bad state of the weather. We shall be ready for work in a few days, when we shall confine ourselves to the following objects—to sink the engine-shaft from the 50 to the 70; after this is completed for ventitation, as well as to draw the staff, we shall open on the three copper lodes which have produced very large quantities of ore in Wheal Maid; and, from what we can see of them here, they present good appearances. I would here remark that after this shaft is completed to the 70 our engine will at once be dispensed with for pumping and applied for drawing, for which purpose it is adapted. We shall at once open on a very large and fine-looking thin lode at the adit and other levels. From all we can see of this lode we expect large returns from small outlay. In adhering to this mode of working, we have no hesitation in saying that it is not only a good speculation, but one that will at an early period give the shareholders as well as ourselves entire satisfaction.

WHEAL MARGERY.—E. James, J. Benbow, W. Rogers, Jan. 23: Wellesley's engine-shaft and its neighbourhood are poor.—American: In the 100 fm. level west no lode has been taken down shope our last report, worth 183, per fm, for cooper ore. In the 90

draight horse pace, or lighter ones at a considerable speed.

BASTIER'S PATENT CHAIN PUMP.—A pump of most extraordinary powers was tried on Friday and Saturday, on the Woodside Graving Dock Company's (Limited) premises, Birkenhead. The bore, only 4½ in., delivered, according to the calculations of several sejentific gentlemen present, 500 gallons per minute, or cause to 160 tons per hour. The one exhibited is for the Wheal Concord Mine, South Sydenham, Tavistock, Devon, to fetch water from a deepth of 300 ft.; the mine and shaft are now full of water, Amongst the gentlemen present we observed Mr. W. Jackson, M. P.: Mr. Callow, waterworks, Birkenhead; Mr. Wyle, Vasukhall Foundry; Mr. Charles Sanderson, engineer; Mr. George Marrison, ditto: Mr. Betts, the eminent contractor; Mr. Watter Scott, engineer, Tranmere Foundry; Meeers. J. Shephard and Co.'s foreman, and several other practical and scientific gentlemen, who all stated that they never saw so large a column of water pass through so small a tube in a given time. The method is applicable for a ship, or any other purposes, and Mr. Clayton has now one under construction for shipe's use, which, for cheapness and quantity of water deliverable, cannot be equalled by any yet out. The pump will be at work again this day and to-morrow, between the wilevand two colock. The public are invited to inspect, and Mr. Bastier, the patentes, will be in attendance to give any explanation.—Liverpool Bully Post.

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for the week ending January 20, was 9766, 12s. 7d.

THAMES TUNNEL COMPANY.—Receipts for the week ending Jan. 19, 145/, 1s. 1d.; number of passengers, 34,513.

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a months MANAGING AGENT.—WANTED, a SUPERIOR
PRACTICAL AGENT, who has had considerable experience among the Weis
lead mines, to TAKE the GENERAL MANAGEMENT and SUPERINTENDENCE of
SEVERAL MINES in CARDIGANSHIRE.—Address, with references, testimonials
and terms, J. H. Murchison, 117, Bishopsgate-street Within, London, E.C.

BOOK-KEEPING BY DOUBLE ENTRY.—The ADVERTISER, practised in accounts of iron, coal, and mine works, and accustomed to correspondence, is OPEN to an ENGAGEMENT. Good testimoulals.—Address, "M. L.," Postomice, Ystradganiats, Swansea.

O CONTRACTORS AND OTHERS.—A FEW HUNDRED TONS of LIGHT FLAT BOTTOMED RAILS FOR SALE, by Jour H. Austre Co., Rail Brokers, 81, Gracechurch-street, E.C.

O MINING CAPITALISTS .- Those inclined to invest in an unusually cheap and safe property may have full particulars or 8." 14, Union-street, Plymouth.

ONIONS'S PATENT FOR THE MANUFACTURE
OF IRON.—WANTED, a GENTLEMAN with £500 or £1000 to ASSIST in
the WORKING of the ABOVE PATENT, which improves from 30s, per ton without
extra cost. No risk of outlay, suitable works being nearly completed.—Apply first toy
letter, to "J. O.," Missing Journal office, 26, Fleet-street, London, E.C.

TEAM ENGINE,—WANTED, a SECOND HAND 60 in cylinder STEAM ENGINE, with BOILER.—Address, stating particulars as ce, to Mr. John Watson, 13, George-yard, Lombard-street, London.

CHARLES LEE AND CO., MINE SHAREDEALERS AND BROKERS, CHESTER.
SHARES ON SALE in the several following mines, in North Wales, vbz.:—South Pant-y-Gof, Kilmorey, South Kilmorey, and others.—Apply at the office, 20, Newgate-street, Chest. N.B.—Mines inspected, and impartial reports given.

SECURE INVESTMENTS.—Capitalists will find British Mines
pay the largest profit of all known securities. To invest £1000 in Consols, railway
debentures, or bank shares, the largest amount receivable is £60 per annum, whereas the
former yields an income of at least £150. Frogressive Mines, judiciously selected, frequently advance from 100 to 500 per cent., and free from risk.

Masses. FULLER AND CO., 8, MORGATE STREET, LONDON, are in daily
commanication with agents of the principal mines in the kingdom, and are in a position
to advise as to the merits of each class of property.

BANKS, RAILWAYS, INSURANCE, and every description of Stock Exchange business transacted. Telegraph messages promptly attended to.

A few SHARES FOR SALE in Dolcoath United and West South Caradon.

CAPT. PRINCE, M.E., CAMBORNE (late of Redruth), having

CAPT. PRINCE, M.E., CAMBORNE (late of Redruth), having, by the solicitations of his friends, removed to this town, where he has taken suitable offices, begis to inform the mining public and capitalists generally that he has made strangements to INSPECT and REPORT on MINES and MINING PROPERTY in Great Britain, ireland, and the European Continent, &c., and flatters himself that, from the experience acquired by the numerous engagements he has had in the management and inspection of copper, tin, lead, silver, from, manganese, lickel and cobait, and antimony mines, at home and abroad, he is competent to give advice to his friends on all mining matters, and that those who may favour him with their patronage will be as well satisfied as other gentlemen who have been guided by his recommendations in investing their capital in good mining speculations, or withdrawing their interest from mines in which no good results were likely to be obtained.

J. Pausce will VALUE, and BUY and SELL MINING PROPERTY, including SHARES, or EVERY DISCRIPTION. He will also assay all ores, minerals, or metals of commerce, and test any kind of ores, minerals, or alloys sent to him, and thus afford facilities to mine agents and others holding mining property for ascertaining the existence, or otherwise, of valuable minerals in those mines in which they may be interested.

J. Pausce and his son, N. Yuvas Pausce, will SURVEY MINES, and ENSURE CORRECT PLANS and SECTIONS of the WORKINGS being made.

Mining Office, Camborne, Jan. 26, 1861.

HE INDIA COTTON COMPANY. (To be incorporated with Limited Liability.) pital £250,000, in 25,000 shares of £10 each (with power to increase by vote of a general meeting). Denotit 10, per share and £11 the on allotment.

general meeting).

Deposit 10s. per share, and £1 10s. on allotment.

It is not intended to call up during the first twelve months more than the £2 per share to be paid on allotment.

HARRY GEORGE GORDON, Oriental Bank Corporation.

HENRY EDMUND GURNEY, Lombard-street.

HARRY BORRADAILE (Director of the Scinde and Punjaub Railways), late College

HARRY BORRADAILE (Director of the Scinde and Punjaud Rahways), and of Customs, Guzeral.

G. LATHOM BROWNE (Managing Director Cape Town Railway), Gresham House. The Hon. THOMAS C. BRUCE, 3, St. James's-street.

THOMAS CAMPBELL, 5, Westbourne-street, Hyde-park-gardens.

WILLIAM FREGUSON (Mossrs. Robert Benson and Co.), Gresham House.

ROBERT M., FOWLER (Messrs. Binsdale and Co.), 50, Cornhill.

(With power to add to their number.)

BANKERS—Messrs. Dimsdale, Drewett, Fowler, and Barnard, 50, Cornhill.

In India—The Oriental Bank Corporation.

SOLICITORS—Messrs. Amory, Travers, and Smith, 25, Throgmorton-street.

BROKERS—Messrs. Towgood and Strachan, 33, Throgmorton-street.

AUDITOR—Edmund Pullen (Messrs. Harding, Pullein, Whinney, and Gibbons, public accountants), 3, Bank-buildings.

SECRETAIN—J. Spencer Price.

TEMPORARY OFFICES,—33, THROGMORTON STREET, BANK, LONDON, E.C.

TEMPORARY OFFICES,-33, THROGMORTON STREET, BANK, LONDON, E.C.

TEMPORARY OFFICES,—33, THROGMORTON STREET, BANK, LONDON, E.C.
This company is established to procure, by a system of direct dealings with the cotton
zrowers in India, an increase in the importation of Indian cetton into this country, an
improvement in its quality, and greater freedom from adulteration.
The necessity for obtaining increased supplies of cotton is overgwhere recognised, and
becomes daily more pressing. Statesmen and manufacturers atike feet the danger which
threatens the nation, obliged, as it is, to depend upon a single country for five-sixths of
the raw material of a manufacture worth more than seventy millions sterling, and on
the success of which from three to four millions of persons in the United Kingdom are
dependent. Apart from the possibility of a failure of the existing supply from the United
States, it is a matter of the first importance to the growth of English manufacturing industry to get more cotton than is at present grown.
Only in America are the three great requisites for the growth of tropical produce—
soil, inbour, and capital—found combined. None but slave labour can there be employed; and the limit of productiveness in the slave states is, perhaps, already reached.
The West Indies and our colonies in Australia and South Africa are suited for the culture of ectton, and the parent country can supply any amount of capital, but labour is

The West Indies and our colonies in Australia and South Africa are suited for the culture of cotton, and the parent country can supply any amount of capital, but labour is universally wanting. In the East Indies we have the cotton soil, and the men whose forefathers have been accustomed to till it from time immemorial.

The Blue Book on East Indian Cotton, published by order of the House of Commons in February, 1845, contains the result of queries, addressed by the Court of Directors to all their boards of revenue and collectors throughout India, with regard to the growth and price of the article, and the means of extending its cultivation. It establishes, beyond doubt, that over immense tracts of country where the culture can be pushed to an aimost indefinite extent, the ryor receives less than 2d, per pound for clean cotton, and that, with with care and encouragement, the yield per acre, as well as the breadth under tillage, might be largely increased.

doubt, that over immense tracts of country where the culture can be pushed to an almost indefinite extent, the ryot receives less than 2d, per pound for clean cotton, and that, with with care and encouragement, the yield per acre, as well as the breadth under tillage, might be largely increased.

Many thousand pounds worth of cotton are annually wasted and lost in the course of transunission from the fields to the seaboard; and adulteration is practised to such an extent as to affect most seriously the reputation and consequent value of Indian cotton. The company's agents being resident in the localities where it shall be decided to commence the company's operations, and in immediate communication with the ryots, will purchase the cotton direct, while using every endeavour to improve the process of picking and cleaning the cotton, and employing the best machinery. Particular attention will be paid to the pressing and baing of the article, so that it may leave the port of shipment without the original packages being disturbed, thereby excluding the opportunity for the present adulteration.

The average quotation of good Breach and Dhollera cotton on Dec. 31, 1860, was 5%d., and there is every reason to conclude that the carefully prepared shipments of the company, wholly free from adulteration, would obtain enhanced rates. The well-known statistics of the cotton trade give reasonable expectations that a profit of 15 or 20 per cent. may be realised.

It is intended to commence the operations of the company in Guzerat. To command the oction supplies of this extensive territory, including Katiywar, it is proposed to place the head-quarters at Breach on the Norbudda river, with agencies at Gogo, a fine seaport on the west coast of the Gulf Cambay, at Dhollera a seaport creek, and at Dhundooka, 45 miles inland, a large town and a central point for numerous cotton districts. The alm of the proposed company is to improve the cultivation of cotton in India, and to endeavour to raise its value in the market in comparison

stating their belief that profitable results are to be obtained in the present state of the trade in Indian cotton, by the establishment of an organized system of agency, such as is proposed by this company. Its operations need not be confined exclusively to India, should a favourable field hereafter present itself in the South African or any other colony. Through the agency of this company the English manufacturer will obtain a better supply of cotton than at present, and in the success which the directors believe awaits their efforts the public will discern a path towards the extinction of slavery, and an increase of the common prosperity of England and India.

Applications for shares, addressed, in the annexed form, to the directors, may be sent to the secretary, at 33, Throgmorton-street, London, E.C.; or to Messra. Towocoo and STRACHAR, brokers to the company; but no application will be considered unless a deposit of 10s, for each share applied for shall have been previously made with the bankers of the company.

FORM OF APPLICATION FOR SHARES.
To the Directors of the India Cotton Company.

I have this day paid to Messrs, Dimedale and Co. the sum of £ quest that you will allot me shares in the India Cotton Company gree to accept such shares, or any smaller number that may be allotted at the remainder of the deposit of £1 los, per share on the shares allotted the remainder of the deposit of £1 los, per share on the shares allotted.

Received the day of tton Company, from tordance with the terms of the pre-, 1861, on account of the Directors of the In , the sum of , being the deposit mad-respectus, on an application for an allotment of

GOVERNMENT INSPECTION OF COAL MINES.—Now ready, price 6d., Second Edition of the New MINE INSPECTION ACT; to which is apended the ACT FOR THE REGULATION AND INSPECTION OF MINES, which ame into operation on Jan. 1.—To be had from the Mining Journal files, or through any bookseller in town or country.

SALES OF LEAD AND TIN.—We are preparing the usual Quarterly Returns for publication in next week's Journal. We shall be glad to receive particulars, from pursers and others interested, that they may appear correctly. The Returns are intended to comprise the sales of ores from all the mines producing tin and lead.

The Mining Market; Prices of Metals, Gres, &c.

METAL MARKET-London, January 25, 1861.

| Copper wirep. lb. 0 1 1 -0 1 134 | Sheets 91/4d101/4d. |
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| ditto tubes 0 1 116 | Wire 93/d10d. |
| Sheathing & bolts , 0 0 111/6 | Tubes |
| Bottoms " 0 1 0 -0 1 01/4 | 117gu117gu. |
| Old (Exchange) , 0 0 10 | FOREIGN STEEL. Per Ton. |
| Best selectedp. ton 105 10 0 | Swedish, in kegs (rolled) 16 10 0 |
| Tough cake , 102 10 0 | , (hammered), 17 5 0-18 0 0 |
| Tile 102 10 0 | Ditto, in faggots 18 10 0-19 0 0 |
| Burra Burra , 102 0 0-102 10 0 | English, Spring 18 0 0-23 0 0 |
| Copiapo , 95 10 0-97 0 0 | Bessemer's, Engineers Tool 44 0 0 |
| The second secon | " Spindle 30 0 0 |
| rnow. Per Ton. | QUICESILVER 7 0 0 p. bottle |
| Bars, Weish, in London. 7 0 0- | SPELTER, Per Ton. |
| Ditto, to arrive 6 5 0-6 10 0 | |
| Nail rods 7 0 0 | |
| " Stafford. in London 7 12 6-8 0 0 | To arrive 18 15 0-19 0 0 |
| Bars ditto 8 0 0- 9 10 0 | ZINC. |
| Hoops ditto 8 17 6- 9 15 0 | In sheets 24 0 0 |
| Sheets, single 9 0 0-10 10 0 | |
| Pig, No. 1, in Wales 3 0 0-4 0 0 | TIN. |
| Refined metal, ditto 4 0 0-5 0 0 | English, blocks128 0 0 |
| Bars, common, ditto 5 10 0- 5 12 6 | Ditto, Bars (in barrels) 129 0 0- |
| Ditto, merchant, in Tees 6 15 0-7 0 0 | Ditto, Refined 130 0 0 |
| Ditto, railway, in Wales 5 10 0- 5 12 6 | Banca |
| Ditto, Swed. in London. 11 10 0-12 0 0 | Straits |
| To arrive | TIN-PLATES.* |
| Pig, No. 1, in Ciyde 2 9 0- 2 10 0 | IC Charcoal, 1st qua. p. bx. 1 10 0- 1 11 0 |
| Ditto, f.o. b. in Tees 2 17 0 | |
| Ditto, forge, f.o.b. in Tees 2 8 6- 2 10 0 | |
| Staffordshire Forge Pig. 3 10 0- 3 12 6 | |
| Welsh Forge Pig | 7001 |
| | |
| LEAD. | |
| English Pig 21 5 0-22 10 0 | Canada platesp. ton 13 0 0-13 10 0 |
| Ditto sheet 22 5 0-22 10 0 | In London; 20s. less at the works. |
| Ditto red lead 23 15 0-24 0 0 | Yellow Metal Sheathing p. 1b. 91/4d. |
| Ditto white 30 0 0-31 0 0 | |
| Ditto patent shot 24 10 0-24 15 0 | Indian Charcoal Pigs 6 10 0 |
| Spanish 20 5 0-20 10 0 | in London |
| * At the works, 1s. t | o 1s. 6d. per box less. |
| | |
| REMARKS.—The Metal Market of | though not quite so brisk as could be |

REMARKS.—The Metal Market, though not quite so brisk as could be desired, is in a better state than it has been for several weeks past, and bids fair, as the money market gets easier, to be in a more prosperous condition. As the season advances considerable advantages cannot fail to be derived from the great facilities opened up for commercial intercourse with China and Japan, and the demand for France gradually but steadily increasing

and Japan, and the demand for France gradually but steadily increasing under the genial influence of the Commercial Trenty, the merits of which are not yet sufficiently developed to make its influence fully appreciated.

COPPER.—The market is very quiet in English, and sale of second-hand parcels have been effected under fixed rates, which has somewhat depressed the market. Shipping orders are scarce, foreign markets being for the most part well stocked. The standard of ores shows a declining tendency. In foreign descriptions a fair amount of business has been done, but prices have been in most cases very low, and sales made through second hands. When all these kind of parcels get cleared off no doubt a considerable improvement will be manifested, as underselling will be less frequent.

frequent.

Iron.—Railway bars steady, at former quotations; a quiet market. In merchant bars a fair business is doing for export to India; prices firm, at 61. 5s. to 61. 7s. 6d., according to specification.

Staffordshire makers are at present in a deplorable state of inactivity, but it is hoped the Canadian demand will soon work out some improvement. No sales of Swedish bars reported. Scotch pigs, m.n., during the week have fluctuated slightly, sales taking place at prices varying from 49s. at the commencement, and declining to 48s. 3d. on Wednesday; closing to-day at an advance of 6d. and 9d.—49s., cash, in Glasgow.

ILEAD.—English pig, good brands, in fair demand; prices without alteration. Sheets very dull of sale, and very little business doing in shot. Spanish pig of soft quality will sell readily at 20%. 5s. to 20%. 10s.; hard, 20s. per ton less.

SPELTER.—The speculative business of the last fortnight has caused this

20s. per ton less.

Spelter.—The speculative business of the last fortnight has caused this metal to wear rather a brighter appearance. Several large sales are reported to have been made at 182. 15s. for spring delivery, which proves the opinion of speculators in favour of an advance as the spring comes on. Shipping orders during the past week have been fewer; prices ruling from 184. 7s. 6d. to 184. 10s. in warehouse in London, and 184. 15s. to 184. 7s. 6d. for spring shipments.

Zinc.—Now quoted at the reduced price of 244.

Tin.—English has undergone a further reduction of 44. per ton, which was announced by the smelters on the 21st inst., prices being as follows:—

was announced by the smelters on the 21st inst., prices being as follows:—Common blocks and ingots, 128*l*.; refined, 130*l*.; and bars, 129*l*. Since the fall but a small amount of business has transpired. Some small sales of foreign are reported to have taken place. Banca, 127*l*. 10s.; Straits, 123. STEEL.—Business still continues to be done in Swedish keg at 17*l*. 10s., ex warehouse, but the consequent diminution of the stocks here will in all probability cause prices to improve before the navigation from Sweden opens. probability cause prices to improve before the navigation from Sweden or

LIVERPOOL, JAN. 24.—The advices received from the United Statessince the 10th instant show that the "secession" feeling in the South had increased. Five States had declared for separation from the Union, with the likelihood that several others would quickly follow. Monetary affairs were in a more satisfactory position, but the importers of metals are ordering next to nothing from this side at present. The rate of exchange in New York had reached a point that will leave little or no profit on the import of gold, so that the heavy drain upon this country will probably cease. This, with the two arrivals from Australia, and the reported improved condition of the Bank of France, will account for the easier tone which has prevailed in our money market during the last two or three days. Iron is without improvement. The orders given out for Staffordshire and Welsh are for immediate requirements in most cases. Those exporters who have received orders for spring shipment hold them back, expecting lower prices by-and-bye. Common bars have been done at 5l. 7s. 6d., f.o.b. in Wales, and at 5l. 17s. 6d. to 6l., f.o.b. here. Common black tin was reduced on the 21st inst. 4l. per ton, making present price 128l.; but this does not appear to have had any marked effect in bringing out orders. The price of this article is still much out of proportion to the price of tin-plates as compared with former periods, and may be further reduced ere long. Tinplates now move off very slowly, and may be quoted at, for all I.C., 22s. 9d. to 23s. per box. For specifications, with a fair proportion of heavy plates. 3d. less would be taken. Scotch pigs quiet. No. 1, g.m.b., are quoted at 48s. to 48s. 6d., f.o.b. at Glasgow, nett cash. LIVERPOOL, JAN. 24.-The advices received from the United State 3d. less would be taken. Scotch pigs quiet. 48s. to 48s. 6d., f.o.b. at Glasgow, nett cash.

48s. to 48s. 6d., f.o.b. at Glasgow, nett cash.

Wolverhampton.—From Mr. S. Griffiths' "Iron Trade Circular:"
Current prices of pig iron (corrected to Thursday evening):—Staffordshire cold blast, 4l. 5s.; Old Windmill End All Mine, Nos. 1 and 2, melters, made with Lord Ward's thick coal warm air, 4l.; Old Windmill End All Mine Forge Mine pig-iron, made with Lord Ward's thick coal, 3l. 12s. 6d.; best native hydrate pigs, 3l. 10s. to 4l.; first-class All Mine grey forge pigs, 3l. 5s. to 3l. 10s.; good mine pigs, with a modicum of flue cinder, 2l. 12s. 6d. to 2l. 17s. 6d.; mine pigs, deteriorated by cinder, 2l. 7s. 6d. to 2l. 12s. 6d.; Cleator Moor hematites, 3l. 7s. 6d. to 3l. 10s.; Barrow menters, Nos. 1, 2, and 3, 2l. 12s. 6d. to 2l. 17s. 6d.; superior makes of mine melting iron, 3l. 2s. 6d. to 3l. 15s., according to make and quality. The above prices are all delivered on to the wharves at the South Staffordshire manufactories. Favourite Shropshire and Forest of Dean brands, 4l. 5s. delivered; northern hematites, from 3l. 5s. to 3l. 10s., according to brand or quality.

COAL MARKET.—On Monday, 72 arrivals. The open weather having cleared the river of ice, the delivery of collier vessels has resumed a regular course again. The market was perfectly stagnant under the great change, and in house coals scarcely a transaction took place, the top price being quoted 24s. per ton. In Hartley's and manufacturers' a few unimportant course again. The market was perfectly stagnant times to price being and in house coals scarcely a transaction took place, the top price being quoted 24s, per ton. In Hartley's and manufacturers' a few unimportant sales were effected at a slight reduction on last week's prices.—On Wednesday, the 64 arrivals contained a considerable proportion of house coals; the factors were not disposed to submit to so large a reduction in price as the bayers required, and a very limited extent of business was done, at 21s. to 22s. for first-class house coals. Hartley's and manufacturers' were in moderate request, at Monday's prices.—On Friday, 121 arrivals. The

market was very dull for house coals, and only a trifling amount of business done, the factors declining to submit to any great reduction in prices. Hartley's and manufacturers' wore a dull sale, at rather lower prices. Haswell Wallsend, 21s. 9d.; Hartlepool Wallsend, 21s. 9; Eden Main, 20s.; Harton Wallsend, 28s. 9d.; Riddell's Wallsend, 19s. 6d.; Hartley's, 16s. to 17s.; manufacturers', 15s. 6d. to 16s. 6d. per ton: 17 cargoes unsold—210 ships at sea.

to 17s.; manufacturers, 10s. od. to 10s. od. per collection of the number of cargoes of the usual statement has just been prepared of the number of cargoes of coal sold by the various factors of the City of London during the past year. The totals are:—Hill, Wood, and Hughes, 1566; Dixon, Harris, and Angier, 1337; Chaytor, Webster, and Andrews, 1196; Marshall, Page, and Co., 1013; Taylor and Plowman, 654; William Milnes and Co., 650; Stephenson Clarke, 639; F. D. Lambert, 471; Charleton and Watson, 408; Mitcalfe and Cory, 383; and Miller and Potter, 178.

Although there has been more activity in the MINING MARKET since our last, and a better tone altogether pervading it, scarcely an average amount of business has been transacted. Dividend mines have been mostly in demand, but one or two speculative mines which had been flat and depressed have rallied, and leave off better. The dividend stocks dealt in present have railied, and leave off better. The divident stocks dead in mostly have been Botallack, South Frances, South Caradon, West Caradon, Wendron Consols, East Caradon, Wheal Seton, West Seton, Wheal Margaret, Ludott, Providence Mines, Marke Valley, &c. Other shares mostly in favour—Pendeen, Cargoll, Merllyn, North Mineros Great W. Mean Margaret, Ludott, Providence Mines, Marke Valley, &c. Other shares mostly in favour—Pendeen, Cargoll, Merllyn, North Mineros Great W. Dec. Oct. 18 (1998). The Cargolith of the Cargolith of

Our rather final than 120 to 125; Wheal Clifford, 200 to 210; Wheal Edward, 1½ to 2. Wheal Grenville, 2½ to 3; a further improvement reported on Friday in the 100 west. North Minera have advanced from 27s., to 32s. 6d., and the new issue to 8s., 10s., upon 5s. paid; at the mine the 35 east has improved from 3½ to 4 tons per fm. Charles's sump, below the 25, is worth 3½ tons per fm.; that above the 25 east is worth 1½ ton; and west, 2 tons. Prosper United, 1½ to 1½; very little has been done in these shares for some time past, though very great expectations are formed of the property, and shares anticipated to reach a high figure when the machinery is complete, and the mines in full work. By a letter from the agent, under date of the 23d, we hear a caunter lode, never before seen in the mine, has been discovered, and which may turn out a great acquisition to the property. West Bryn Gwiog advanced to 25, 26; the mine is cleared to the bottom level, and the lode is from 3 to 4 feet wide, composed of spar, calamine, and lead, embedded in white limestone. Driving will be commenced on the lode,

east and west, on Monday. Wheal Kitty (Lelant), 13 to 14; Wheal Ludcott, 3\(\frac{1}{4}\) to 4\(\frac{1}{4}\). Wheal Margaret have advanced to 56, 58; Wheal Mary Ann, 19 to 20; Wheal Scton, 145 to 150; Wheal Trelawny, 17\(\frac{1}{2}\) to 18\(\frac{1}{2}\); Wheal Wrey, 10s. to 12s. 6d.; Wheal Norris, 20s. to 21s.; Pendeen, 5\(\frac{1}{4}\) to 5\(\frac{1}{4}\). Lewis Mines, 1\(\frac{1}{4}\) to 1\(\frac{1}{4}\), with a call of 1l. 6s, 2d. per share paid. It appears at the meeting a call of this amount, equal to 6500l, was made to pay off the debts of the company, which twelve months ago was represented to be in a most flourishing condition, and the shares strongly recommended at 4l. per share. At this time, however, it is well known the Cornish holders were selling, and the whole matter requires thorough investigation. Yarner, 35s. to 40s.; the 30, on the north lode, is worth full 50l. per fm. Prospidnick, 5 to 5\(\frac{1}{2}\). Silver Vein, \(\frac{1}{4}\) to 1\(\frac{1}{4}\); the report states that upwards of 200 tons of ore have been raised from the recent workings; and, when the reduction works have been completed, about 60 tons per month may be reduced for silver.

On the Stock Exchange an active demand for Mining Shares has prevailed during the week, and a general advance occurred in prices. The following quotations were officially recorded in British Mining Shares:—East Wheal Russell, 7, 7\frac{1}{4}, 8\frac{1}{4}, 8\frac{1}{4}, 8\frac{1}{4}, 7\frac{1}{4}, 7\frac{1}{4}, 7\frac{1}{4}, 7\frac{1}{4}, 7\frac{1}{4}, 7\frac{1}{4}, 8\frac{1}{4}, 8\frac{1}{4}, 8\frac{1}{4}, 8\frac{1}{4}, 7\frac{1}{4}, 7\frac{1}{4}, 7\frac{1}{4}, 1\frac{1}{4} Wheal Russell, 7, 7\frac{1}{4}, 1\frac{1}{4}, 1\frac{1

The activity that we had to note in Colonial Mining Shares "outside" in our last has not been maintained during the past week, there having been but few transactions in that class of shares. As we then stated, the receipt of information from the mines was the cause of that activity, and it is, therefore, with pleasure we find that in the few transactions referred to there is no falling off in price of shares. Great Northern are quoted 13, 13. receipt of miormation from the mines was the cause of that activity, and it is, therefore, with pleasure we find that in the few transactions referred to there is no falling off in price of shares. Great Northern are quoted 1\frac{1}{6}, 1\frac{3}{6}, business having been done at 1\frac{1}{4}. Dun Mountain, no alteration in price; the meeting is called for the 30th inst. Worthing, \frac{3}{6}, 1; Kapunda firm, at 2\frac{1}{4}, 2\frac{3}{6}; Port Phillip, \frac{1}{2}; the meeting passed off very well, although there was no dividend declared; it, however, appears that they are almost out of debt, but a very small amount being owing, while the agents report that the prospects are good; it may, therefore, be anticipated that at the next meeting there will be sufficient in hand to enable a good dividend being declared, as suggested by the directors in their report. Lusitanian, 2\frac{1}{6}, 2\frac{3}{6}; \text{Cobre, 42, 44; St. John del Rey rather firmer, and leave off, 2\frac{9}{6}, 3\frac{3}{6}; \text{Mariquita, \frac{1}{6}, \frac{1}{6}, \text{shares having changed hands at \frac{3}{6}; Inares, 9, 9\frac{1}{3}; Copiapo nominally quoted at 8, 10; by the report to hand this week it does not appear that the prospects at the mines were very encouraging. English and Australian Copper, 3\frac{1}{6}, 3\frac{1}{6}. Clarendon Consolidated have not been quoted on the market for some little time; the directors this week have made a call of 2s, 6d. per share, payable early in April next. During the week the shares of the Labuan Coal Company have been quoted at 2\frac{1}{6}, 2\frac{1}{6} prem.; and those of the Nerbudda Coal and Iron, 1\frac{1}{2} to \frac{1}{2} dis.

At Redruth Ticketing, on Thursday, 2327 tons of ore were sold, realising

At Redruth Ticketing, on Thursday, 2327 tons of ore were sold, realising 13,450*l*. 8s. The particulars of the sale were—Average standard, 130*l*. 6s.; average produce, 6½; average price per ton, 5*l*. 15s. 6d.; quantity of fine copper, 152 tons 7 cwts. The following are the particulars:—

| | | Tons. | | | | | | | | | | n. | | |
|------|-----------|--------|--------|-------|-----|--------|------|-------|-----|-----|-----|--------|-------|------|
| Dec. | 27 | . 2740 | | £135 | 9 | | 63% | | .£5 | 16 | 6 | | £92 | 0 |
| Jan. | 3 | 2602 | ***** | 133 | 15 | | 714 | ***** | . 6 | 19 | 0 | | 95 | 17 |
| 99 | 10 | 2685 | | 130 | 11 | | 63/4 | | . 6 | 2 | 6 | | 90 | 3 |
| ** | 17 | 5198 | ***** | 132 | 13 | | 5% | ***** | . 5 | 1 | 0 | | 86 | 2 |
| | 24 | | | | | | | | | | | | | |
| omn | ared with | h the | lact w | ook's | sol | le the | nds | rance | had | hee | n i | in the | stand | lard |

11. 13s., and in the price per ton of ore about 2s. 2d. Compared with the corresponding sale of last month, the decline has been in the standard 4l. 8s., and in the price per ton of ore about 5s. 9d.

The directors of the Devonshire Great Consolidated Copper Mining Com-pany, at their board meeting, held yesterday, declared a dividend of 71681., being 71. per share, arising from profits on sales of copper ores sampled in the months of Sept. and Oct. last. After payment of the same there remains in hand a balance of 19,818, 19s. 7d. in cash, ore bills not at maturity, and reserved fund applicable to the general purposes of the company.

the company.

At Wheal Buller meeting, on Jan. 15, the accounts showed—Balance last audit, 7261. 4s.; thn and copper ore sold (deducting 1911. 9s. 4d. duss. at 1-16th), 28721. 0s. 3d.; tin, on account, 4001. =39981. 4s. 3d.; labour cost, Nov., 9851. 8s. 2d.; Dec., 9871. 19s. 3d.; income tax on account, 581.; merchants' bills, including coals imported, 7471. 15s. 3d.; leaving credit balance, 12441. 1s. 7d. A dividend of 5121. (24. per share) was declared, and 7321. 1s. 7d. carried to credit of next account. Capts. Davey, Davey, Jun., Brown, and Johns reported upon the various points of operation.

At South Tolgus meeting, on Tuesday, the accounts showed—Balance last audit, 516. 17s. 8d.; ore sold, 3146. 9s. 10d. =36631. 7s. 6d.—Mine cost and merchants' bills, 22841. 5s. 5d.; leaving credit balance, 13801. 2s. 1d. The profit on the two months' working was 8631. 4s. 5d. A dividend of 7681. (1d. 10s. per share) was declared, and 6121. 2s. 1d. carried to credit of next account. The 120 west, on Uren's lode, produces 4 tons per fathom, worth 7t. per ton. The 100 and 110 east, on south lode, 1 ton per fathom each.

At West Wheal Basset meeting, on Wednesday (Mr. T. Bushell in the chair), the accounts showed—Balance last audit, 996. Is. 10d.; copper and tin sold, 8679. 0s. 9d. =96751. 2s. 7d.—Mine cost, merchants' bills, and sundries, 4997. 8s. 6d.: leaving credit balance, 4677. 14s. 1d. carried to credit of next account. Captain W. Roberts reported that the engine-house was up to the first-floor, and if the weather should now prove favourable, they may expect to have it covered in by the end of February.

At Alfred Consols meeting, on Monday, the accounts showed,—Mine cost, Sept. and Oct., 15301. 17s. 1d.; inerchants' bills, 640f. 4s. 4d. =21711. 1s. 5d.—Balance last audit, 1231. 18s. 10d.; ore sold (deducting 831. 5s. 7d. dues, at 1-18th), 1416. 14s. 9d.; sundries, 95d. 8s. 9d.; leaving debit balance, 6554. 19s. 1d. It was resolved to memorialise the lords to give up dues during pleasure. Captains Cren and Hosking reported that in taking a general survey of the different points of operation throughout the mine for the past two months, they may compratulate the adventurers on the improved appearance of the mine, and hope the time is not far distant when they they will be able to meet their own requirements, and amply repay them for their patience.

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they will be able to meet their own requirements, and amply repay them for their patience and perseverance.

At Devon and Courtenay Mine meeting, on Tuesday (Mr. T. Nicholls in the chair), the accounts showed a debit balance, when all calls are paid, or 2391. 16s. 9d. A call of 1s. 6d. per share was made. Capt. Thomas Bawden reported upon the various points of operation. Their last parcel of ore, sold on the 17th, was worth about 100l. At Tees Side Mine meeting, on Monday (Mr. F. S. Hemming in the chair), the accounts showed a credit balance of 1ls. 10d., and a balance of liabilities over assets of 1381. 19s. 3d. A call of 1s. per share was made. Messrs. Hemming, Bird, Procter, Crick, Provis, and Batters were appointed committee of management. Captain W. Jeffrey, having specially inspected the mine, reported favourably upon its prospects, but declares that unless the mine be managed better than it has been it will do no good At Great Wheal Alfred Mine meeting, on Tuesday (Mr. F. R. Wilson in the chair), the accounts showed a debit balance of 36321. 4s. 9d. A call of 6s. per share was made. Details in another column.

At Tolcarne mine meeting, on Jan. 18, the accounts for the six months ending October showed a loss of 386 19s. 11d., and those for Nov. and Dec. a further loss of about 4281: together, 12651. A call of 5s. per share was made. The agents estimate that their cost for Jan. and Feb. will be about 330l, per month.

At Wheal Lewis meeting, on Tuesday, the accounts showed a loss on the seven months' working of 6837l. 8s. 8d. A call of 1l. 6s. 2d. (the division of loss) was made. It appears that some of the committeemen have availed themselves of their official knowledge, and sold out to save calls. Details will be found in another column.

the seven months' working of 6537. 8s. 8d. A call of 11. 6s. 2d. (the division of loss) was made. It appears that some of the committeemen have availed themselves of their official knowledge, and sold out to save calls. Details will be found in another column. At Copper Hill Mine meeting, on Monday, the accounts for four months ending December showed—Mine cost and merchants' bills, 1791. 13s. 5d.—Balance last the weight to be raised and it, 92f. 2s. 5d.; copper ore sold (deducting 711. 19s. 8d. dues, at 1-16th), 10791. 14s. 11d.; sold, johns, and Inch reported that the very severe weather had much retarded their progress in putting the engine to work; in consequence, the water was nearly up to the 66 fm level, so that they could not work below that level, but calculate, should the weather prove fine, to be ready to work the engine the latter part of next week.

At Catherine and Jane Consolidated Mine meeting, on Thursday (Mr. Dunsford in the chair), the accounts showed a debit balance of 1394. 4s. 4d. The statement of liabilities and assets (not valuing the plant and machinery on the mine) showed a balance in favour of the adventurers; but, as one large item in the assets consisted of arrears of call, which was considered doubtful, a call of 8s. per share was made. The committee were empowered to accept transfers of the shares whereon calls were upsald, and to dispose of them as they might deem best.

At the North Crofty Mine meeting, on Tuesday, the accounts showed a debit balance of 13194. 8s. 7d., and a loss on the four months' working of 13134. 0s. 3d. The loss was divided pror rata, being equal to a call of 14. 8s. 6d. per share. Messry, Lanyon and Percival were appointed the surgeons of the mine. Mr. Basset having acceded to the request for an extension of ground in the north part of the sett, and with a vice of giving a more speedy and vigorous development to the fine lode which has been recently opened into at the deep akit in that part of the mine, it was received that the north ground be divided from

the proper position for the erection of a steam-encosary to enable them to recommend Thomas, jun., and Bennetts, was favourable to the division of the sett, and the prospects of both parrs were considered to be good.

At North Wrey Mining Company meeting, on Thursday next, the accounts will show—Shares paid up in full, 1000f.; calls received, 760f.; loan received, 100f. = 180f., 10an received, 100f. = 180f., 10an received, 100f. = 180f.; loan received, 100f.; mine cost, merchants bills, registration of company, salaries, and sundries, 308f. 7s. 4d.: leaving credit balance, 51f. 12s. 8d. This latter amount, together with the nominal capital uncalled, and calls in arrear, make up the credit balance of 6291f. 12s. 8d. shown by the company's balance-sheet to Dec. 31. Capts. Michael Barbery and George Rowe reported favourably upon the prospects of the mine.

At Wheal Henry conversal meeting (Afr. 2).

iset to Dec. 31. Capis. All Charlet Basser; see the prospects of the mine.

At Wheal Henry general meeting (Mr. E. Boyle in the chair), the account showed adebit balance of 3631. 8s. 7d. A call of 10s. per share was made. Messrs. Filliam Williams, Edward Boyle, John Balster, and E. H. Hawks, were appointed the mmittee. A report was read from the capitain, which was considered very satisfactory.

At Penhalis Mine meeting, on Thursday, the accounts showed.—Tin pld, 1314/. 12s. 7d.; balvans, 8t. 5s. 7d. = 1322t. 18s. 2d.—Three months' cost, 1216/. 1s. 4d.; asking a profit on the three months' workings of 106/. 16s. 10d.; balance in favour of nine. 2621. 13s. 7d.

mine, 2624, 136, 7d.

At Wheal Kitty (St. Agnes) general meeting, on Thursday, the accounts showed a debit balance of 1951, 5s., 5d.

At South Carn Brea Mine meeting, on Tuesday (Mr. W. A. Thomas in the chair), the accounts showed a debit balance of 43041, 16s. Sd. A call of 15s. per share was made. Capt. Thos. Gianville reported that he calculates to return in the next two months about 20 tons of black tin. They will sample on Wednesday next about 25 tons of coner ore.

Two months about 20 tons of place till. They will suggest that the South Devon Iron and General Mining Company, yesterday (Mr. At the South Devon Iron and General Mining Company, yesterday (Mr. W. Sarl in the chair), a favourable statement from Mr. J. H. Hitchins, which appears in another column, showing the nature and extent of the recent discovery upon the company's property, was received and approved.

At Great Wheal Fortune meeting, on Jan. 16, the accounts for July,

At Great Wheal Fortune meeting, on Jan. 16, the accounts for July, Aug., and Sept. showed a profit on the workings of 4721. 19s. 7d., which, after payments on relinquished shares, &c., left to credit of mine 1191. 16s. 9d. Capt. John Hosking, of Gwennap, was appointed third underground agent, at 81. 8s. per month; and a stock account of materials received and delivered was ordered to be kept by the agents. Mr. Fredc. Hill, Capt. W. Oats, and Mr. Wm. Crotch, were added to the committee of management. Capts. R. Pryor and J. Daniel reported on the mine; they have employed on tutwork seventy-eight men and seven boys; on tribute, ninety-seven, working forty-three pitches, at tributes varying from 6s. 8d. to 14s. in 11., at a standard of 601, per ton for tin; otherwise employed, one pitman, one timberman, six kibble fillers, six landers, eleven enginemen, four smiths, two carpenters, two sawyers, four labourers, six spallers and dividers of tinstuff, one hundred and sixty men, boys, and girls on the dressing department: total, 385. If the lode in the 68, eats of Fainter's, is found of equal value as seen in the 68 they will support late returns, exclusive of other important points in operation where there are fair chances of discoveries being made.

At Lady Bertha Mine meeting, on Thursday (Mr. Peter Waton in the chair), the accounts showed a balance of liabilies over assets of 2991, 14s. 6d. Details in another column.

chair), the accounts showed a balance of liabilies over assets of 299f, 14s, 6d. Details in another column.

At East Wheal Grenville meeting, on Wednesday (Mr. J. Y. Watson in the chair), the accounts showed a credit balance of 206f. 8s. 1d., and a balance of liabilities over assets of 153f. A call of 2s. per share was made. Capt. 6eo. R. Odgers reported upon the various points of operation.

At Wheal Hendra Mine meeting, on Jan. 17, the accounts showed a debit balance of 29f. 3s. 8d. A call of 10s. per share was made. It was resolved that the secretary and purser be paid 2f. 2s. per month; the agent be paid 4f. 4s. per month; and Mr. Joseph Williams be appointed surgeon of the mine. Capt. R. King reported on the mine:—"Since our last meeting, in October, we have purchased an engine of 12-in. cylinder, with a 6-tons boller, very cheap; and with some new work we have got in addition, I believe our engine will be full power to put us down at least 30 fms. We shall very soon set several tribute pitches, as there is a good tinny bottom for 30 fms. in length, which I can vouch for. We have an account of an adit brought up to within about 100 fms. of our workings about 120 years since, and from a shaft which we have cleared up I think it most probably true. This adit is on the course of the lode, and where we have opened on the backs are all taken away, thus showing it is in mineral ground."

At the St. John's United Lead and Copper Mining Company, New-

At the St. John's United Lead and Copper Mining Company, New-oundland, meeting, on Monday (Mr. C. P. Berkeley in the chair), it was agreed that the offer of the vendors for the sale of the English Ridge and Turk's Head should be accepted.

At the Port Phillip and Colonial Gold Mining Company meeting, on Thursday (Mr. Macdonnell in the chair), it was agreed that the meeting should not adjourn, but that the report an accounts (an abstract of which appeared in last week's Journal) should be adopted, thus negativing the proposal from the chair that the meeting be adjourned till July, to allow time to receive the remittances necessary for the declaration of a dividend. Details in another column.

The Clarendon Consolidated Mining Company of Jamaica made a call

The Charendon Consolation 12s. 6d. per share on Tuesday.

At the Scottish Australian Investment Company meeting, yesterday the Scottish Australian Investment and accounts an abstract of which appeared

(Mr. W. H. Dickson in the chair), the report and act in last week's *Mining Journal*, were adopted.

An extraordinary meeting of the Acadian Charcoal Iron Company (Li-pited) is called for Tuesday, to take into consideration the pending litigation between the company and Messrs. Hunter and Chowne, trustees of the Commercial Bank of Lon-on, and other parties, and to pass specific resolutions thereon.

don, and other parties, and to pass specine resolutions increon.

The continually increasing number of out-adventurers in Cornish mines coupled with the circumstances that a large proportion of those adventurers are located far from Cornwall, and that the metropolis is the only place within the easy reach of all has rendered the establishment, to mines whose management is carried on in the county of Offices of References in London an almost absolute necessity, and even those mines the control of the control of the county of t in which the regard for ancient customs has been most rigid are gradually adopting the new system. Par Consols, West Fowey, East Crinnis and South Par, and Prideaux Wood are amongst the most recent mines for which London agencies have been appointed—Mr William Charles, of Austinfriars, having the honour of receiving the appointment in

LEEDS, JAN. 24.—No decided improvement has taken place in mining hare transactions; there has been little variation in quotations. We hear favourable counts from some of the progressive mines, and hope soon to have to report of their aving paid dividends to the enterprising shareholders; nothing less will do. Craven foor, 4s. to 4s. 6d.; Hebden Moor, 1 to 1½; Merryfield, 3s. to 4s.; Nidderdale, par; Vensleydale, 7s. to 8s.; Yorkshire, 1bs. to 18s.—John Gledhill And Co.

Profits on Railway Capital,—It appears that of a total of 334,000,000% paid up as railway capital in various forms, 23,000,000l. (of which about 6,000,000l. was in course of expenditure on extensions and new lines) remained unproductive; nearly 5,000,000l. realised less than 1 per cent.; between 4,000,000l. and 5,000,000l. realised from 1 to 2 per cent.; 25,000,000l. from 2 to 3 per cent.; 25,000,000l. from 3 to 4 per cent.; 153,000,000l. from 4 to 5 per cent.; 74,000,000l. from 5 to 6 per cent.; 20,000,000l from 6 to 7; and about 9,000,000l. from 7 to 10 per cent. The past year will, no doubt, exhibit a fair improvement on these results.

STRAY PARK.—We have been favoured with a copy of a report issued by the agents of this mine, dated Jan. 22, in which occurs the following paragraph:—
"We would here express our curprise and regret at a report which was last week circulated by Messra. Webb and Geach, 'that the tinstuff at surface, which was valued at 1100', is nearly all stamped, and does not yield more than an estimated value of 240t,'" In writing our remarks on the 16th inst., we said—"The most important fall has been in Stray Park, which have failen to 40, 41, and are now tolerably steady at that price. One cause assigned for this is, that the stuff at surface, which was valued at 1100',, is nearly all stamped, and does not yield more than an estimated value of 240t." We simply gave the above as one of the causes assigned for the fall in the price of shares from 49t. to 41t., and which we have no doubt was the principal cause of the fall, just in the same manner as the late rise has been occasioned by another report on the market, that the mine has improved, and this report of improvement in the mine was also noticed by us. And we may say, further, that one of our inspecting agents, in whose reports we have every reason to place confidence, wrote us giving the same report of the Stray Park tinstuff as that already current on our market. We have no interest personally in Stray Park Mine, and, therefore, we can have no object to gain, either in attempting to depreciate or to enhance the market value of the property, and would as readily give a good report as an adverse one. Our alm is to give as near as we can the assigned cause of a fail or rise in the price of any mine in which there may have been any violent fluctuation during the week.—Were AMER AND GEACH.

Lectures to Working Men—Applied Mechanics,—The lecture on Monday evening, by Mr. R. Willis, M.A., was in continuation of the above subject. After treating briefly on machinery as a modifier of motion, the lecturer went on to consider that branch of mechanics—the mechanical powers. Reference was made to the lever; this he filustrated in its three forms:—1, when the fulcrum is situated between the weight to be raised and the power to be overcome; 2, when the weight is seated between the power and fulcrum; 3, when the power is placed between the weight and fulcrum. On the application of lever-power in everyday use, aliusion was made to pincers, sheepshears, &c. The common balance and steelyard were shown to be modifications of levers, and the lecturer stated that the steelyard had been in use in China for several centuries. Several varieties of the balance were now shown, and attention was drawn to the use of knife-edges in those of modern manufacture.

Indian Grown Cotton.—The unsatisfactory position of affairs in the United States has awakened the people of this country to the necessity for securing to our cotton consumers an ample supply of the article from territory under our own control, and it is universally admitted that nothing will tend more completely to promote good feeling between us and our Asiatic fellow-subjects than the exhibition of the proof that under British role the facilities for obtaining prosperity are greater than they have been, either under Mahomedans or Hindoos. Owing to the immense quantity of affording this proof would be extremely small, and it is probable that in cotton alone the commercial transactions which might be carried on would be enormous. With such considerations before us, we can only regard the prospects of the India Cotton Company as particularly encouraging. The capital has been fixed at 250,000t, in 10t shares, and the names on the direction are those of most substantial men. It is intended to commence operations in Guzerat, and thence extend them as opportunity offers.

Mr. Booth, Mr. Lancaster, and Mr. Knowles, a deputation from the Lancashire and Cheshire Coal Association, with Mr. Hall, parliamentary agent, had an interview with the Right Hon. T. Milner Gibson, at the office of the Board of Trade.

CARDIFF AND CAERPHILLY IRON COMPANY.—An adjourned meeting will be held, before Mr. Commissioner Fonbianque, at the Court of Bankruptcy, on Feb. 5, when all parties interested should attend.

In the Wheal Crofty part of North Roskear two boys descended a shaft for amusement, when, on ascending, one of them fell out of the ladder, 30 or 40 ft. He

THE HISTORY OF TELEGRAPHY.

THE HISTORY OF TELEGRAPHY.

Telegraphy has now become so completely a necessary of life, that some account of its history will be generally interesting; we purpose, therefore, to give some further details concerning the information procurable from Mr. Shaffner's very valuable volume, "to which we briefly alluded in last work?" Journal. Passing over the periods when beacon fires and sema-phores were the order of the day, we shall at once proceed with the account of the progress which has been made in the means of speedy communication stone the electric flaid has been brought under the control of man; in doing so we have simply to the progress which has been made in the means of speedy communication show the state of Mr. Shaffner, who appears to have carried his researches so far that few would care for more minute information upon any point connected with the subject. Since the discovery of this mysterious phenomenon in nature the whole world has been startled from time to time by its extraordinary development. As a science it dates with the eighteenth centary. Duffye discovered that there were two distinct kinds of electricity; one of which he called "vitreous," or that of glass, rock crystal, hair of animals, &c.; and the other "resinous," that of amber, copia, gum las, &c. He showed that with electricity of the other kind. It was in 1746 that the experiments of Muschenbreck, Cunness, and Kleist were made, which led to the introduction of the Leyden jar, concerning the earlier shocks from which some very amusing anecdotes are recorded. In 1747, in consequence of a communication from Mr. Peter Collinson, F.R.S.L., to the Literary Society of Philadelphia, Franklin first directed his attention to electricity; and in consequence of a communication from Mr. Peter Collinson, F.R.S.L., to the Literary Society of Philadelphia, Franklin first directed his attention to electricity; and consequence and the consequence of a communication from Mr. Peter Collinson, F.R.S.L., to the Literary Society of Philadelphia, Franklin

* "The Telegraphic Manual," &c. By Tal. P. Shaffner, of Kentucky. London: Edward Stanford, Charing-cross.

LEAD ORES.

BLACK TIN.

| Sold on the 19th January. | Now the state of the state

COPPER ORES.

Sampled Jan. 9, and sold at Tabb's Hotel, Redruth, Jan. 24.

| Mines. | Tons. | | rice, | | Mines. | To | | | rice | |
|-----------------|-----------|------|-------|---|-----------------|----|---|-----|------|----|
| South Caradon . | | | | 0 | North Downs | 5 | 8 | £7 | 15 | 0 |
| | 83 | | 11 | 0 | ditto | 5 | | 7 | 15 | 0 |
| | 76 | | 9 | 6 | Tywarnhaile | 6 | 2 | . 3 | 12 | 6 |
| ditto | 70 | . 19 | | 0 | ditto | 41 | | . 3 | 13 | 0 |
| ditto | 67 | . 8 | 12 | 6 | ditto | 4 | | 4 | 12 | 0 |
| ditto | 25 | . 6 | 10 | 6 | ditto | 21 | | 4 | 10 | 6 |
| Great Wheal Bu | sy 80 | . 2 | 9 | 6 | Craddock Moor | 71 | | 7 | 18 | 6 |
| ditto | 74 | . 1 | 19 | 0 | ditto | 70 | | 6 | 14 | 6 |
| ditto | 56 | . 2 | 4 | 0 | North Treskerby | 7 | | 7 | 0 | 6 |
| ditto | 51 | . 2 | 16 | 6 | ditto | 6 | | - 5 | 12 | 6 |
| ditto | ****** 35 | . 5 | 12 | 6 | Wheal Polmear | 55 | | - 6 | 2 | 6 |
| ditto | 30 | . 4 | 3 | 0 | ditto | 5 | | 5 | 9 | 0 |
| United Mines . | 90 | . 1 | 14 | 0 | ditto | 2 | | 12 | 1 | 6 |
| ditto | 65 | . 2 | 12 | 6 | South Crinnis | 56 | | 5 | 8 | 6 |
| ditto | 39 | . 5 | 3 | 0 | ditto | 41 | | 6 | 3 | 6 |
| ditto | 36 | . 4 | 15 | 6 | ditto | 21 | | 16 | 14 | 0 |
| ditto | 80 | . 0 | 8 | 0 | Wheal Ellen | 31 | | 5 | 10 | 6 |
| ditto | 20 | . 4 | 5 | 0 | ditto | 25 | | 2 | 6 | 0 |
| St. Day United. | 76 | . 5 | 10 | 6 | ditto | 10 | | 1 | 14 | 0 |
| ditto | 50 | . 4 | 7 | 6 | | | | | 18 | 0 |
| ditto | 49 | . 3 | 0 | 0 | Gonamena | 38 | | 4 | 11 | 6 |
| ditto | 33 | . 1 | 14 | 0 | ditto | 1 | | - 5 | 13 | -0 |
| ditto | 25 | . 9 | 14 | 0 | Perran Mines | 28 | | 4 | 1 | 6 |
| ditto | 20 | . 1 | 4 | 0 | | 18 | | | 14 | 6 |
| North Downs . | 60 | . 7 | 14 | 6 | | | | | | |
| | | TO | FAL | P | RODUCE. | | | | | |

| | Tons. | | Amo | unt | |
|--------------------------|-------|----------|------|-----|----|
| Mines Royal Company | 62 | £ | 283 | 13 | 0 |
| Vivian and Sons | 321 5 | á | 2552 | 14 | 4 |
| Freeman and Co | | | 866 | 0 | 9 |
| Grenfell and Sons | 2981 | 6 | 2116 | 12 | 0 |
| Crown Copper Company | 38 | | 209 | 19 | 0 |
| Sims, Willyams, and Co | 200 | 5-6 | 1425 | 19 | 4 |
| Williams, Foster, and Co | 380 | 5-6 | 2616 | 11 | 10 |
| Mason and Elkington | 500 | ** ***** | 2239 | 0 | 9 |
| F. Bankart | 152 | | 680 | 14 | 6 |
| C. Lambert | 17 | | 92 | 13 | 0 |
| Sweetland and Co. | 188 | ******* | 356 | 9 | 6 |

£13,450 8 0 Copper ores for sale on Thursday next, at Tabb's Hotel, Redruth.—Mines and Parcel's.—West Seton 692—Wheal Clifford 603—Fowey Consols 381.—East Pool 357.—Tiucroft 307.—Condurrow 277.—Wheal Basset 125.—South Frances 295.—Wheal Seton and Pendarves 191.—East Wheal Basset 145.—South Tolgus 132.—East Crimits and South Par 112.—Stray Park 85.—South Crofty 65.—Tevoole 85.—Pedro-an-drex 54.—Camborne Vean 46.—Dolcoath 43.—Trefusis 14.—Treffry's Regulus 7.—Total, 4015 tons.

So-Dictorate 3-- Teriusis 14—Trentry's Regulus 7.—Total, 4015 tons.

Copper ores for sales on Thursday week, at Tabb's Hotel, Redruth.—Mines and parcels.

West Basset 550—Carn Brea 471—Pendeen Consols 220—Par Consols 281—Great Wheat
Alfred 250—Great South Tolgus 240—Levant 181—Treloweth 114—United Mines 105—
East Alfred 104—Wheat Charlotte 98—Rosewarme United 79—West Fowey Consols 80

—Wheal Builer 55—East Carn Brea 49—Gook's Kitchen 46—Wheal Anna 36—Wheat
Messer 25—South Carn Brea 28—Spearn Moor, 14—Camborne Consols 12—Wheal Caroline 12—Trebarvah 10—West Wheal Providence 9.—Total, 3144 tons.

| Tons. | | Prod | | Amor | int. | | | Stan | day | rd. | | Ore | opp | er. | . (| Cake | cop |
|--------|--|--|--|---|--|--|---|---|--|--|--|--|--|---|--|---|--|
| | | | | | | | | | | | | | | | | | |
| . 3197 | | 7 | | 15,948 | - 8 | 0 | | 110 | 19 | 0 | | 71 | 11 | 0 | | . 88 | 10 |
| . 3192 | | 5% | | 21,265 | 17 | 0 | | 164 | 14 | 0 | | 116 | 12 | 0 | | 107 | 10 |
| . 2846 | | 614 | | 18,868 | 15 | 6 | | 148 | 19 | 0 | | 105 | 4 | 0 | | 126 | 0 |
| . 4582 | | 614 | | 28,466 | 1 | 6 | | 138 | 17 | 0 | | 96 | 5 | 0 | | 126 | 0 |
| . 3117 | | 81% | | 16,245 | 6 | 0 | | 145 | 7 | 0 | | 95 | 3 | 0 | | 126 | 0 |
| . 4233 | | 63% | | 31,761 | 2 | 0 | | 162 | . 4 | 0 | | 118 | 14 | 0 | | 135 | 0 |
| . 3218 | | 614 | | 19,805 | 11 | 0 | | 141 | 11 | 0 | | 97 | 17 | 0 | - | 117 | .0 |
| . 3356 | | 612 | | 20,247 | 9 | 6 | | 141 | 19 | 0 | | 101 | - 6 | 0 | 11 | 112 | 10 |
| | | | | | | | | | | | | | | | | | |
| | . 3892 . 3197 . 3192 . 2846 . 4582 . 3117 . 4233 . 3218 | . 3892 . 3197 . 3192 . 2846 . 4582 . 3117 . 4233 . 3218 . 3356 | . 3892 . 714 . 3197 . 7 . 3192 . 534 . 2846 . 614 . 4582 . 614 . 3117 . 514 . 4233 . 634 . 3218 . 634 . 3356 . 634 | 3892 . 7½ . 3197 . 7 . 3192 . 534 2946 . 6½ | 3892 714 £16,323 3197 7 15,948 3197 554 21,265 2846 614 18,868 4582 614 28,466 3117 614 16,245 4233 644 19,805 3218 614 19,805 3356 614 90,347 | 3892 . 7\\(\frac{1}{2} \) \(\frac{1}{2} \) (3.23 \) 13197 . 7 . 15.948 8 3192 . 53\(\frac{1}{2} \) (21,265 17 . 2846 . 61\(\frac{1}{2} \) (316 . 18,868 17 . 4892 . 61\(\frac{1}{2} \) (28,466 1 3117 . 61\(\frac{1}{2} \) (317 . 61\(\frac{1}{2} \) (318 . 61\(\frac{1}{2} \) (318 . 61\(\frac{1}{2} \) (3218 . | 8892 7½ £16,323 1 0 3197 7 15,948 8 0 3192 5¾ 21,265 17 0 2346 614 18,868 15 6 4882 6½ 28,466 1 6 3117 5½ 16,245 6 0 4233 63, 31,761 2 0 3218 6½ 19,805 11 0 3356 6½ 29,247 9 6 | 3892 7½ £16,323 1 0 3197 7 15,948 8 0 3192 554 21,965 17 0 2846 4882 6½ 22,466 1 6 3117 5½ 15,466 1 6 3117 5½ 15,466 6 0 4223 6½ 33,761 2 0 3218 6½ 19,805 11 0 3218 6½ 34,47 9 6 | 3892 7½ £16,333 1 £102 3197 7 15,948 8 0 11 3192 5½ 21,265 17 0 164 2346 6½ 18,868 15 6 148 4582 6½ 28,466 1 6 145 3117 5½ 16,245 6 145 4233 6½ 31,761 2 0 12 2218 6½ 19,805 11 0 141 3356 6½ 20,247 9 6 141 | 3892 7½ £16,323 1 0 £102 13 3197 7 15,948 8 0 110 19 3192 5½ 21,265 17 0 164 14 18,868 15 6 148 19 184 19 188 19 6 183 17 183 17 184 19 16,345 6 0 145 7 145 11 185 17 187 18 19 | 3892 .7½ £16,323 1 £102 13 3197 .7 15,948 8 0 10 19 0 3192 .5½ 21,225 17 0 164 14 2346 .6½ 18,868 15 0 164 14 4582 .6½ 28,466 1 6 145 7 3117 .6½ 16,245 6 0 146 7 4233 .6% 31,611 2 162 4 3218 .6½ 19,805 11 0 141 11 3356 .6½ 20,247 9 141 10 | 3892 7½ £16,333 1 £102 13 0 3197 7 15,948 8 0 110 19 0 3192 5½ 21,265 17 0 164 14 0 2346 6½ 18,868 15 6 148 19 0 4582 6½ 28,466 1 6 138 17 0 3117 5½ 16,245 6 0 145 7 0 4233 6% 31,61 2 0 162 4 0 2218 6½ 19,805 11 0 141 11 0 3356 6½ 20,247 9 6 141 19 0 | 8892 7½ £16,323 1 £102 13 0 £25 3197 7 15,948 8 0 110 19 0 71 3192 5½ 21,285 17 0 164 14 0 116 2846 6½ 18,868 15 6 148 19 0 105 4582 6½ 28,466 1 138 17 0 96 3117 5½ 16,245 6 0 145 7 0 95 4233 6½ 31,761 2 162 4 0 118 3218 6½ 19,805 11 0 141 11 0 10 3356 6½ 20,247 9 6 141 19 0 10 | 3892 7½ £16,333 1 £102 13 0 £65 17 3197 7 15,948 8 0 110 19 0 71 11 3192 5½ 21,285 17 0 164 14 0 116 12 2846 6½ 18 18 19 0 106 4 44 488 19 0 106 4 10 18 14 0 96 5 31,73 18 14 18 17 0 96 5 31,76 26 145 7 0 96 3 31,76 20 162 40 18 14 19 18 14 19 18 14 11 0 91 18 14 12 18 14 19 0 118 14 19 0 118 14 19 0 118 14 11 0 91 18 </td <td>3892 .7½ £16,323 1 £102 13 0 £65 17 3197 .7 15,948 8 0 11 19 0 7 11 10 3192 .54 21,965 17 0 164 14 0 116 12 2846 .64 18,868 15 6 148 19 0 10 4 0 462 .64 18,466 1 6 18 17 0 96 3 3117 .64 16,345 6 0 145 7 0 95 3 4223 .68 33,761 2 0 122 4 0 118 14 0 3215 .64 19,806 11 0 141 11 0 77 17 0 3356 .64 29,247 6 141 19 0 10 6 10 16 10 6 10 10 10 6 10 10 10 6 10 10 10 6 10 10 6 10 10 6 10 10 10 10</td> <td>8892 .7½ £16,323 1 £102 13 0 £51 f7 0 3198 8 0 110 19 .7 11 10 319 .7 15,948 8 0 110 19 .7 11 10 .339 11 10 .339 .3</td> <td>Toss. Prod. Amount. Standard. Ore copper. Cake 38992 774, 216,5231 0 . 102 13 0 . 265 17 0 . 285 17 0 . 325 10 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 284 10 10 10 0 . 71 11 0 . 88 13 19 0 . 64 1 18 18 18 18 18 18 18 18 18 18 18 18 1</td> | 3892 .7½ £16,323 1 £102 13 0 £65 17 3197 .7 15,948 8 0 11 19 0 7 11 10 3192 .54 21,965 17 0 164 14 0 116 12 2846 .64 18,868 15 6 148 19 0 10 4 0 462 .64 18,466 1 6 18 17 0 96 3 3117 .64 16,345 6 0 145 7 0 95 3 4223 .68 33,761 2 0 122 4 0 118 14 0 3215 .64 19,806 11 0 141 11 0 77 17 0 3356 .64 29,247 6 141 19 0 10 6 10 16 10 6 10 10 10 6 10 10 10 6 10 10 10 6 10 10 6 10 10 6 10 10 10 10 | 8892 .7½ £16,323 1 £102 13 0 £51 f7 0 3198 8 0 110 19 .7 11 10 319 .7 15,948 8 0 110 19 .7 11 10 .339 11 10 .339 .3 | Toss. Prod. Amount. Standard. Ore copper. Cake 38992 774, 216,5231 0 . 102 13 0 . 265 17 0 . 285 17 0 . 325 10 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 285 17 0 . 284 10 10 10 0 . 71 11 0 . 88 13 19 0 . 64 1 18 18 18 18 18 18 18 18 18 18 18 18 1 |

GOVERNMENT INSPECTION OF COAL MINES ACT FOR THE REGULATION AND INSPECTION OF MINES.

GLOSSARY OF ENGLISH AND FOREIGN MINING AND
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THE PROGRESS OF MINING IN 1860, BIJ.Y. WATSON, F.G.S., Author of the Compendium of British Mining (published in 1843), Gleanings among Mines and Miners, &c.

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NVESTMENTS IN BRITISH MINES.—
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ND THE YEAR ENDING 31st DEC., 1860, with Particulars of the Principal Diidend and Progressive Mines, Table of the Dividends Faid in the last Five Years, &c.,

vidend and Progressive Mines, Table of the Dividends Paid in the last Five Years, is NOW READY.

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The CHECULAR of INFORMATION gratis, on application to the Patent Office and esigns Registry, 156, Strand.

Notices to Correspondents.

- Much inconvenience having arisen, in consequence of several of the Numbersdurin the past year being out of print, we recommend that the Journal should be regular! Aled on receipt: it then forms an accumulating useful work of reference.
- Decomposition of Fire-Damp.—Although Mr. Wall's discovery for decomposing fire damp remains at present in absyance, he has by no means abandoned the idea of developing it. He trusts ere long to be in a position to show the full efficacy of the remedy against the frequently recurring colliery explosions in an unmistakeable manner, and what is more, in a mine.
- What is more, in a mine.

 MERRYFIELD MINING COMPANY.—Can any of your readers inform me what progress is being made at this mine? If the prospects last July continue to be as good, and the resuits then anticipated realised? If the prospects are unfavourable, I think the shareholders ought to know, therefore would suggest the desirability of publishing monthly reports.—A Shareholder.
- THE ENGLISH AND AUSTRALIAN COPPER COMPANY.—The shares in this company are, it HE ENGLISH AND AUSTRALIAN COPPER COMPANY.—The shares in this company seems to me, at an accountably low figure, considering it is paying a dividend least 5 per cent. In August last 10 per cent, was added to the reserve fund, and was a cash balance of nearly 50,000k. On April 25 there were seven furnaces at and the coal and wood at the works 1600 tons; but on Nov. 24, only two n since, there were eight furnaces and two refineries at work, and 2740 tons of co. 5006 tons of wood, and the ore shipments and make of copper proceeding satisfact. Under these circumstances, I have ventured to ask, through your valuable Jofor some reason why our property is at so great a discount?—A SHARRIGLER.

 WHERL NELSON.—Allow me to call attention to an error in the quoted prices w
- For some reason why our property is at so great a discount?—A Sharkenolder.

 Where Xelson.—Allow me to call attention to an error in the quoted prices with regard to Wheal Nelson. Up to July last year 11, per share had been paid; in that month, after a meeting held on the 17th, a call of 10s, per share was made; and subsequently, on Nov. 30, another of 3s, 6d., making 14. 13s, 6d.; in all. You never noticed the 10s, call; and since the last one you have continued to quote 14. 3s, 6d.; and lee in the Journal of last week Mr. James Crofts has failen into the same error.

 The above call of 10s, was made "to pay the small balance then due, to provide for the next three months' cost, and to pay for the water-wheel, stamps, and every other liability, and leave a good balance in hand for the future working." The wheel and stamps being recommended to be immediately put up by Capt. Angove, he stating that he could return from the ground already laid open the to the amount of 250d, per month. Notwithstanding the call having been made, and I presume paid, on Dec. 24 Ifind Capt. Angove in his report says,—"We are raising good work for tin, but the tin buyers cannot give the value for the coarse work in the stone ore:" and he goes on to recommend the immediate crection of cight heads of stamps. May I ask him, or the committee of management, what has become of the 10s, call of July; and, if expended as proposed, where are the 250d, per month that were to accrue from that outlay? In a report of the November meeting I see a statement made of credit being given for 58t, 13s, 10d., and no more.—A SHAHEROLDER.

 Rosewall Hill AND RANSON UNITED.—The communication of "S. W.," in last week's

given for 584. 13s. 10d., and no more.—A SHAHEHOLDER.

OSEWALL HILL AND RANSON UNITED.—The communication of "S. W.," in last week's
Journal, would have curried more weight if he, being a shareholder, had signed his
name. The mine, judging from the reports, is looking well; and the shareholders are
to blame for allowing so long a period to elapse without any meeting being held. If
after these hints no notice is taken by the management, it is to be hoped that some
shareholder will take the responsibility upon himself, and call a meeting. There is
an office of reference here, and such particulars can be obtained as are forwarded; but
as these are never of a financial character, the shareholders are necessarily in the dark
as to their real position.—N.

as these are never of a financial character, the shareholders are necessarily in the dark as to their real position.—N.

Wheal Enna.—Noticing your remarks in lost week's Journal on a communication from Capt. Moyle—an agent of whom I know nothing,—but recollecting that he was selected from a large number of respectable applicants, and that the committee by whom he was appointed expressed themselves highly pleased with the character he received for honesty and trathfulness, as well as for good mining ability, from some of the highest mining authorities in Cornwall, it does appear most important, after all that has transpired in connection with this mine, that any statement made by Capt. Moyle should have due weight with the committee, and shareholders in general. One fact was noticed to me under Capt. Moyle's management—that the ore fetched an improved price, which fact is worth much promise; for we have had too much of the latter commodity in connection with our mines elsewhere, as well as at Emma, which I, for one, cannot altogether lose sight of. The report from Capts. Dunstan and Williams, that caused the displacing of Capt. Moyle, has not been circulated amongst illiams, that caused the displacing of Capt. Moyle, has not been circulated amongst the shareholders. But why not? Capt. Dunstan is reported to have promised a profit of 3001. a month. Did this simply apply to working out the reserves of ore opened up by Capt. Moyle, or fair working? And when, in either case, are the patient shareholders to partake of it? Every one who has been duped by mining men does not wish to acknowledge it to the world; and if they cannot call those parties to the bar of public opinion, who take the management of their affairs and their money too, without publishing their names, there are large numbers of the mining public who will make up their minds to sover themselves from mining altogether. I am led to these remarks opinion, who take the management of their attairs and their money too, winduc prolishing their names, there are large numbers of the mining public who will make up their minds to sover themselves from mining altogether. I am led to these remarks by seeing that answers have been refused to others who have asked questions, through your Journal, which did not appear to me as improper ones. And in referring to your remarks about a mining agent, whom I have never seen, I have no shinker motive it serve; but I may remark that while I hold a high opinion of some members of the committee, I confess that they surprised me when I was informed of Capt. Dunstan's re-appointment. I hope, therefore, that while due regard is paid to Capt. Moyle's statements, Capt. Dunstan's promises, which, I understand, caused his re-appointment, will be performed.—A Sharkholder.

statements, Capt. Dunstan's promises, which, I understand, caused his re-appointment, will be performed.—A SHARRHOLDER.

WHEAL VYVAN.—I notice in the Journal of last week a report from Capt. J. Hampton, the inspecting agent at this mine, that operations had been commenced on the 16th. It was a source of much gratification to all the inhabitants to find a resumption of the workings, and the apparent prospect that ere long most of our mining population would obtain work nearer home than in the Weedron Mines. But as I hear that neither Capt. Hampton nor the intended resident gent have been continuously on the mine since the eight miners began, and as any one accustomed to mining pursuits must be well aware of the necessity of a vigilant watch over "owners' account-men, this non-attendance of the agent at the commencement seems, in any case, very peculiar. There is a rumour that Capt. Hanocok cannot leave his present situation for a short time. What has kept aloof the attention of Capt. Hampton also the public here seem unable to determine. I would suggest that it would have been more desirable and, doubless, beneficial to the adventurers to have delayed taking on the muntil at least one of the agents could have given his attendance. One word as to the riches shadowed forth for the 20 fm. level. Knowing the workings throughout intimately, I unhesitantingly inform Capt. Hampton that the proceeds of the labour from the pares at this level, as predicted in the report, will, without some fresh discovery, prove a complete delusion. It is general that "old mon's" reports of long-abandoned mines are very flattering. Too few years have passed since Wheal Vyvyan cessed working for many Constantine men not to know the real condition. Console yourselves, fellow-shareholders, we shall not find in sight such advantageous ground nunworked after the supervision of the late managing agent, Capt. R. S. Bryant. Having yielded such large returns of tin and copper, and with a limited trial, the mine search work after the supervision o

The Inon Trade—Blast Furnaces.—I, too, like "A Subscriber," consider Mr. Grif-fiths' List of Blast Furnaces not to be relied upon. I noticed that Parkgate was omitted; and I know of two furnaces at Beek Hole, near Grosmont, that are, or have been, in blast, also omitted.—Ascriber Subscriber: Fork, Jan. 21.

been, in blast, also omitted.—Another Subscher: Fork, Jan. 21.

Advance or Money on Mining Shares.—It would be a great convenience to many bong fide holders of shares in approved mines if there were facilities afforded to them for raising advances of money upon them during seasons of temporary depression. A man who has paid the price for some of these shares that ruled last spring, in the expectation that he would be able to dispose of them again without serious loss, if he had occasion to use bis money in some other way, may castly be, and I know cases where he is, put to serious inconvenience by the leavy fails that have taken place, which renders him naturally very unwilling to sear-fide his property, which is paying him even now excellent interest, but which he would be glad to sell if he could on moderately favourable terms. Now, if any bank in London, or, perhaps better still, in Cornwall, would do brainess with holders of good property in mines, which they are anxious to retain as investments, and only require temporary advances, the result would be that the class of bona Ade holders would increase, having this aid to look to, and the cause of legitimate mining would gain supporters.—Sharkholders.

Bosewarke and Herland.—The management being unsatisfactory to the adventurers,

cosewarns and Herland.—The management being unsatisfactory to the adventurers, many are desirous of making a change at the coming meeting. Attention is hereby called to the case, that more suitable arrangements might be brought forward, and that all adventurers may be prepared in time. Doubtless the mine would be a good one if in proper hands.—W.: Bristol, Jan. 23.

one if in proper hands.—W.: Bristot, Jan. 23.

Losewall Hill and Panson United Mines.—I quite agree with "S. W." that it is high time the shareholders looked after matters in this unite. The manager, Captain Tre-weeke (also of Wheal Margaret and St. Ives Consols) and his son, Mr. Thos. Treweeke, jun., being the purser, surely it is not too much to expect that quarterly meetings should be held in this as well as all other well-regulated tin mines. I am given to understand that at the last general meeting of shareholders, held on July 9, the manager stated that no meeting would be called until be was in a position to give to the shareholders a dividend. Rumours are afloat, however, that a call of 11. per share (60001.) is likely to be made on the shareholders at the next general meeting. Surely this cannot be. I gave 51. 7s. 6d. for my shares, now I see they are at 21. 5s. Question—Are all merchants' bills regularly charged up and paid for? Let the manager and purser answer. We have no doubt it is a good property, but we out-advonturers want confidence, and when agents state they will be able to give a dividend at the next meeting, or, on the other hand, a question is asked if any call will be required at the next meeting, and the agents answer "yea" or "us," we are bound, I say, as share-holders, to believe them.—A Sharkenolder.

Subsuct in America.—Our friends in America are informed that they can obtain Mining Journal by ordering it from a bookseller in any of the principal towns of United States. Mr. Trübner, of Paternoster-row, is the London agent, and sends cels by every mail to the principal booksellers and news agents there.

* With the Journal of last week was published the TITLE-PAGE AND INDEX to our THIRTIETH VOLUME. Subscribers requiring miss numbers, to make their sets perfect, should apply for them early.

THE MINING JOURNAL

Bailway and Commercial Gazette.

LONDON, JANUARY 26, 1861.

The reading, before a provincial scientific society, of a paper which contained the rather curious argument that, inasmuch as theory showed that a given quantity of power should be obtained from each pound of coal consumed in the generation of steam, whilst in practice only one-eighth of that quantity was realised, our practical arrangements must, consequently, be extremely defective, led us to remark that, although we could not deny that there is much room for improvement in all mechanical contrivances, it would be more philosophic to endeavour to discover in what particular the theoretical conclusions were incorrect, than to attempt to prove that seven-eighths of the coal annually consumed in this country are wasted; and in support of our position we referred to the fact that, owing to erroneous data concerning the heat-conducting powers of a certain metal being regarded as correct, the theoretical deductions relating to all alloys and amalgams into the composition of which that metal entered could not be

amalgams into the composition of which that metal entered could not be reconciled with practice. Several communications have since reached us, requesting more definite information as to the precise experiments alluded to. In the Mining Journal of Oct. 13 we published an abstract of a highly interesting paper presented to the Royal Society by Prof. Crace-Calver, Ph. D., F.R.S., &c., and Mr. Richard Johnson, F.C.S., in which was embodied the results of their researches regarding the conductibility of mercury, proving that whilst the previously-adopted data caused conclusions to be arrived at which practice showed to be utterly at variance with truth, upon the data obtained from more carefully-conducted experiments being employed, theory and practice very nearly coincided. To explain ourselves more minutely, we may state that the fallacious data declared the heat-conducting power of mercury, as compared with that of silver, to be as 677 is to 1000, power of mercury, as compared with that of silver, to be as 677 is to 1000, whilst the later experiments proved it to be only as 54 is to 1000. Messrs Calvert and Johnson were recommended by Prof. Stokes, Sec. R. S. Calvert and Joinson were recommended by Prof. Stokes, Sec. R. S., to ascertain that the notion of the high conducting power of mercury had not arisen from the mass having been permitted to become heated through currents; he suggested that they should tilt the apparatus, and ascertain what would be the influence of various angles on the conductibility of mercury as determined by their method. Acting upon this suggestion, they obtained what may be regarded as the nearest approximation to truth yet discovered. It was ascertained that the high-heat conducting power was due entirely to the currents, since the less favourable the conditions for heating by this means, the lower was the result obtained; thus the experiments showed:—

Mean obtained. Silver 1000.

With the mercury vertical the mass is practically free from the currents hich, in other cases, cause the very different results to be obtained, and masquently, any heat conducted must be due to the actual heat-conducting power of the mercury as a metal, and not as a fluid. In publishing discovery Messrs. Calvert and Johnson have conferred a benef upon science, and not more so in enabling the conductibility of heat in amal-gams and alloys to be calculated, than in proving that theories may be laid down which accord so nearly with practice as to be of the utmost utility

In last week's Journal attention was drawn to the case of "Newman appellants, v. THE WITTON HIGHWAYS, respondent," whereby the rateing of an untenanted rock-salt mine, laid off work on account of the low price of salt, was held by the Quarter Sessions at Chester to be rateable to the highway rate, for its nett annual value of 100l. It was a fact in evidence that not a single grain of salt had been raised, or attempted to be raised since 1857, and that though the pit gear, engine, and buckets were in good working order, yet they were kept so merely in order to pump and examine the mine every month or six weeks, at a yearly expense and loss to the appellants of from 50l. to 80l. So that, in substance, the decision of the Sessions was this—that an unoccupied and unworked mine is chargethe Sessions was this—that an unoccupied and unworked mine is charge-able for the repair of the highways in the same manner exactly as if it were in full work, and producing a nett rent of 100% per annum, instead of a loss of from 50% to 80% per annum for pumping, &c. This judgment, if law, will very disastrously affect the mining interest; for it follows that if a mine be once opened it is for ever after liable to highway rates, not-withstanding it may be subsequently unoccupied, unworked, and even abandoned. We cannot think that the decision of the Chester Quarter Sessions towards a support of the control of t

abandoned. We cannot think that the decision of the cluster quantor Sessions correctly expounds the law, and certainly we hope it will be appealed against, and the decision of the Court of Queen's Bench obtained. As to the rating of coal mines, there is certainly an opinion current among the judges of Westminster Hall, that if no rent can be obtained for a colliery it is not liable to be rated; an opinion which is to some extent supported by the case of Rex v. Parror, 5 T. R., 593, which inforestially decides that if the colliery in that case manticed had not produced a of REX PARROT, 5 T. R., 593, which infer-decides that if the colliery in that case mentioned had not produced a entially decides that if the colliery in that case mentioned had not produced a profit sufficient to have induced the payment of rent it would not have been held liable to be rated. The question seems, however, to be substantially decided by the subsequent cases of Rex v. Bedworth, 8 East, 387, and Rex v. Rochester, 12, East 353, in the former of which it was held that where a coal mine becoming unproductive ceases to be worked the lessee is no longer liable to be rated for it to the relief of the poor, although he is still bound by his covenant to pay the rent reserved to his landlord. Lord Ellerborough, in giving judgment, stated that the occupier was rateable only for the concurrent annual value during the period for which the rate is made; and when the thing which he occupies no longer affords. able only for the concurrent annual value during the period for which the rate is made; and when the thing which he occurries no longer affords any such concurrent value, the subject-matter of rating is gone. These last words clearly show, in our opinion, that the judgment of the Chester Quarter Sessions is wrong; and it further appears to us that if they had

been cited by the appellants' counsel the justices would not have decided

as they did.

The principle we are contending for also receives some support from the latter case above cited (Rex v. Rochester), which decided that a land-lord not resident within the parish, having leased lead mines and other minelord not resident within the parish, having leased lead mines and other minerals, with liberty to the tenants to dig, &c., reserving a certain annual rent, and also a certain proportion of the ore which should be raised, is, at any rate, not assessable to the relief of the poor for such rent, no ore having been raised. Lord Ellenborough, in giving judgment, confirmed the above-mentioned case of Rex v. Bedworth, by observing—"Even if they were the actual occupiers of coal mines they would not be rateable for them before they were worked and were productive."

These cases have been further extended to that of a mine for which a rent is still payable and which, though it might be made productive. Yet

rent is still payable, and which, though it might be made productive, yet has partially or wholly ceased to be worked at the will of the lessees; the Court holding that the owners of a mine are not compellable by law either to work it at a loss, or to make an imprudent or premature use of their property.

their property.

Such are a few of the cases which we have brought together in the hope that they may be of service in enabling Mr. Newman to obtain a reversal of the judgment of the Court of Quarter Sessions. For, at present, if the Quarter Sessions be right, poor mines, and mineral property in general, are, in our opinion, heavily and unjustly charged.

THE UNACCOUNTABLE HETTON COLLIERY EXPLOSION.

On Thursday evening, Dec. 20, 1860, about 8:30 P.M., the above colliery exploded in the Hetton seam with terrific violence, causing the death of 22 persons. Considering the extent of the colliery and number of workmen employed, had the explosion occurred at 8.30 A.M. the loss of life might as easily have been 220 as 22. The circumstances attending the explosion are so extraordinary, as remarked by one of the viewers who gave evidence, that a few remarks on the subject cannot fail to interest. The concurrent testimony of all the witnesses was in favour of the explosion having originated in the flue of the underground engine-boiler. plosion having originated in the flue of the underground engine-boiler. The witnesses are required in giving evidence to give "the truth, the whole truth, and nothing but the truth." So unanimous are their depositions in this case, as reported by the public press, that practically it might as well have been "the flue, the whole flue, and nothing but the flue." Of course, we can but believe that the results of the explosion were such as to lead them to such a conclusion. According to the evidence, the jury very properly returned the following verdict:—"We find that the said John Greaves, and twenty-one other persons, who, on December 20 last past, came by their deaths in the east and west minor pits of the Hetton Colliery, had been killed by an explosion of inflammable gas, which had accumulated in the flue leading from the boiler of Davison's engine to the upcast shaft, which gas was not generated in the roorkings of the said pit." The part printed in italies is the only part on which there can be any difference of opinion, and that to which our remarks will be directed. ar remarks will be directed.

In the absence of published plans, we have only the verbal descriptions

given at the inquest on which to depend. From these it would appear to us that the flue may properly be divided into two sections—the one on the east and the other on the west of the point where the flue passes over the main north in-going current of air and main north rolley-way. These two sections are of very unequal length and sectional area, but of nearly equal contents, the one on the east extending from the damper, close to the boiler, to the air-crossing, having the largest sectional area, and much the shortest to the air-crossing, having the largest sectional area, and much the shortest length, its contents being 3000 cubic feet; the other on the west extending from the crossing to the west minor pit furnace drifts, being considerably the longest, but of much smaller sectional area, so that its contents are 4000 cubic feet. The east section dips slightly towards the crossing, where it will have to pass over a sort of elevated ridge over the crossing, from which point it rises uniformly to its exit into the furnace drift. From the

it will have to pass over a sort of elevated ridge over the crossing, from which point it rises uniformly to its exit into the furnace drift. From the boiler to the crossing, side-ways or travelling ways, aired with fresh air, pass along the sides of the flue proper, from the crossing to the furnace drift, the flue linings, or side walls, are built against the solid coal or stone, with the exception of two angles or bends. This flue, it appears, has existed in its present form and arrangement upwards of 34 years, for Thos. Smith, one of the witnesses, says "It is 34 years since I was in the flue before last night;" and Mr. Foster states, "The flues at Hetton Colliery were built under my direction in 1826, when I was viewer of this colliery." The crossing referred to was partly blown out by the force of the explosion, as was also two portions of the flue, one about 30 ft. in length, near the damper, the other at a drift between the damper and the crossing, called the pipe drift. Generally speaking the effects of the explosion were stated to be such as to lead to the opinion that the force had been exerted from within the flue, parts of the masonry at least being thrown outwards. The damper was simply broken across its shortest way—horizontally, the bricks in which it was placed and moved, and the boilers being undisturbed.

Could such a flue, so circumstanced, be charged with explosive gas? It seems preposterous to suppose that it could be so from any other source but the boiler fire. This fire was in full operation during the working of the pit, and up to 5 P.M. on the day of the explosion. At night it was covered up by from 12 to 16 (say 16 cwts.) of coal being thrown on the fire. After being so covered, the damper near the end of the boiler was put down, so as to leave a space of 1½ in, open, and so left for the night. Mr. Wood stated a space or 70 square inches area, through which air, &c., might pass the damper, existed under those circumstances. The boiler-fire was situated. The flue on all sides was surro portion to the coal laid on the fire at 5 P.M. on the evening of Dec. 20 up to 8:30 P.M., the time the explosion occurred? The engineman, Davison, certainly states in his evidence that usually only 8 cwts. were laid on the fire, one quarter only of which was burnt the next morning, after the lapse of 11 hours, the time on this occasion being only three hours and a half. Would the whole of the gases evolved in this time be explosive? Supposing they were, then, according to Mr. Bell's datum, the quantity would be 8000 cubic feet during three hours and a half, or about 2285 cubic feet be 8000 cabic feet during three hours and a half, or about 2285 cubic feet per hour. Having in the damper an aperture of 72 square inches, or half a square foot area, and a velocity of 30 feet per second—the velocity with which the air current descended the downcast pit—900 cubic feet of fresh air would pass the damper into the flue per minute, or 54,000 cubic feet per hour, a quantity sufficient to render explosive the utmost possible quantity of gas that could be generated under the most favourable circumstances, even were it all given off in one hour and a half. Supposing the quantity of gas that count be generated under the most anyonators exceed stances, even were it all given off in one hour and a half. Supposing the whole quantity given off to be the maximum of 8000 cubic feet, and supposing it all to be given off and equally divided over three hours and a half, or at the rate of 2285 cubic feet per hour, the quantity of air passing into the flue—54,000 cubic feet per hour—would be in the proportion of 23 to 1. If the area of the space through, beneath, and around the damper, which worked in a groove of fire-brick, and, consequently, could not be anything like close all around its edge, was more than 72 square inches, then the proportion of air to gas would be increased, and if they required a longer time than three hours and a half to generate from the coal under the circumstances, the proportion would be still further increased, thus rendering such distillation of gas under the circumstances utterly harmless.

What effect would the existing conditions of the flue have on the products of combustion, whether explosive or otherwise? Is it at all probable that these products would lodge in the flue? The flue from the damper to the ridge of the crossing is the only part where such seems in the slight-

that these products would lodge in the flue? The flue from the damper to the ridge of the crossing is the only part where such seems in the slight-current of 900 cubic feet of air per minute could only give a velocity of 30 feet in the same time. This is a trifling velocity, but this quantity of air would enter the flue, through the spaces in and around the damper, at the very high velocity of 30 feet per second, or 1800 feet per minute at the least, acting on the contents of the flue. air would enter the flue, through the spaces in and around the damper, at the very high velocity of 30 feet per second, or 1800 feet per minute at the Least, acting on the contents of the flue like a jet of high-pressure staam, which would keep them constantly for some considerable distance from the damper in a state of active agitation, thus preventing the current, after passing into the flue, in whatever state, from separating or allowing the explosive gases to settle up to or rest in an explosive state in the upper portion of the flue. Beyond the air crossing from the decreased sectional area of flue (disregarding the probability of scales of fresh air through the

sonry of the crossing), the current would move at upwards of 60 feet minute, which, with the effect of the upward inclination, would utterly event the stagnant accumulation of explosive gas. These currents and locities would be increased by the increased temperature producing in-ased volume. Taking the whole of these circumstances into consideracreased volume. Taking the whole of these circumstances into consideration—the quantity of coals laid ou the fire; the extreme maximum quantity of gas that could under the most favourable circumstances be evolved;
the time in which this must have been effected; the quantity of air passing
into the flue during the same time; the great ventilating pressure existing
on the damper, and consequent extremely high velocity the air would rush
through the same; the effects this steam jet-like stream would have on the
contents of the flue, keeping them in a state of constant agitation; the
effect of the raised bridge, or crossing, combined with the slightly dipping
of the flue towards it, on the current passing along the flue; the effect of
the lessened area, and upward inclination, beyond the crossing; the fact
that during 34 years the same succession and combination of circumstances the lessened area, and upward inclination, beyond the crossing; the fact that during 34 years the same succession and combination of circumstances must have occurred and been produced many thousands of times,—we can only quote Mr. Bell's evidence—"There is no reason that suggests itself to me for the gas accumulating in this way and exploding, when it has not done so for so many years."

Would the gas contained in the flue produce the effects stated to have been caused by the explosion in this case? It would seem that the contents of the flue could not possibly be in an explosive state on the west side of the crossing, and it would seem Mr. Bell was of that ominion; and con-

been caused by the explosion in this case? It would seem that the contents of the flue could not possibly be in an explosive state on the west side of the crossing, and it would seem Mr. Bell was of that opinion; and considering all the circumstances, it is difficult to bring one's mind to believe that the portion east of the crossing could be fully charged with an explosive mixture of gas; but were it even so, is it really possible that 3000 cubic feet, on exploding, could produce the terrific effects stated by the various witnesses?

cubic feet, on exploding, could produce the terrific effects stated by the various witnesses?

These flues cross the north wagon-way about 150 feet north of the down-cast shaft. According to the witness, John Bond, 114 feet of the main brattice of the downcast pit, together with the guides, &c., were completely blown out and destroyed. The east stables, about 150 feet from the same shaft, were set on fire. South of the downcast shaft, at the distance of 700 yards, a crossing was blown out, Ferguson and another, working 100 yards nearer the shaft, being killed on the spot by the concussion. Beyond the distance of 700 yards south of the pit little violence seems to have been exerted. West of the pit little or no damage is stated to have occurred, although the west furnaceman was killed by after-damp. The east furnaceman was of opinion that the force of the explosion came from the flue, and he was uninjured and saved: 800 yards east of the pit, down the east bank, Smith was blown down in an area of 75 square feet, but was little hurt; all the men in the east district of the workings were saved but Scott, although the force of the explosion extended 1400 yards from the shaft in that direction. North of the shaft the force extended 1600 yards from the downcast shaft, and broke down a crossing. According to Laverick, the four men, Sandelands, Wright, Jobling, and Gibson, who were working 600 to 800 yards along the north rolley-way, making refuge stalls, were blown to pieces and burnt—the only men there is any correct information of having been burnt at all. These four men were the only persons working with naked lights in the north workings of the pit. Mr. Langley states:—"The whole of the flue bears marks of violence, but not, as we judge from actual inspection, of that disruptive force which has been exerted at a considerable distance from the flue in the main intake, within a few hundred yards of the shaft:" 350 yards north of the supersion. north stables were set on fire by the explosion.

[To be concluded in next week's Mining Journal.]

THE COAL MINES OF GREAT BRITAIN.

How long will our coal fields last? is a question which has been so re peatedly asked, that it is probable that any work in which the subject is carefully and rationally discussed would meet with an adequate amount of patronage; and upon these grounds we conclude that the volume entitled patronage; and upon these grounds we conclude that the volume entitled "The Coal Fields of Great Britain: their History, Structure, and Duration," which has just been issued (through Mr. Stanford, of Charing-cross) by Mr. Edward Hull, B.A., F.G.S., and which is replete with reliable data, will be found to be very generally acceptable. From Mr. Hull's connection with the Geological Survey of Great Britain he has had facilities for acquiring information which would otherwise have been unattainable, and that he is well able to record his facts in a lucid and perspicuous style must be acknowledged from the character of the several works which have previously emanated from his pen. The professed object of the treatise is to afford reliable information regarding the resources of our coal fields—to what extent they have been already exhausted, and for what length of time the present supply can be maintained; and certainly this object has been fully attained. The results which he has arrived at are briefly these:—That there are coal deposits in various parts of England and Wales at all depths, down to 9000 or 10,000 ft.; that mining is possible to a depth of 4000 ft., but beyond this depth the high temperature will prove a barrier; that the temperature of a coal mine at a depth of 4000 ft. will probably be found as high as 120° Fahr., but there is reason to believe that by the agency of an efficient system of ventilation this temperature may be so reduced, at least during the cooler months of the year, as to allow of mining operations without unusual danger to health; that for working mines of greater depth than 2000 or 2500 ft. underground, stages with independent winding machinery and engines will be found not only to render very deep mining practicable, but also to lessen the amount of risk from accident; and that adopting a depth of 4000 ft. as the limit to deep mining, there is 'The Coal Fields of Great Britain: their History, Structure, and Dura-

winding machinery and engines will be found not only to render very deep mining practicable, but also to lessen the amount of risk from accident; and that adopting a depth of 4000 ft. as the limit to deep mining, there is still a quantity of coal in store in England and Wales sufficient to afford a supply of 60,000,000 tons for about 1000 years.

But, though we cannot doubt that Mr. Hull's data, so far as regards the extent and thickness of the beds, are reliable, we are compelled to doubt the accuracy of his calculations, and we are glad to say that we do so without the slightest fear that those doubts will prove unfounded. Mr. Hull tells us that we have coal enough to give us 60,000,000 tons annually for a thousand years, which is equal to saying that we have the apparently large quantity of 60,000,000,000 tons capable of being worked. Now, considering that our coal trade is by no means stationary, but, on the contrary, gradually and continually increases, it will be found that the figures which Mr. Hull gives, as representing the aggregate number of tons available to us, could only be looked upon with some misgivings, since they would more nearly prove, not that we have an abundant coal supply for a thousand years, but that the source of England's greatness will be exhausted within a comparatively limited period. Mr. Hull assumes the annual production of coal to be only 60,000,000 tons, although the last published statistics, officially prepared by Mr. Robert Hunt, F.R.S., the Keeper of Mining Records, shows the production for 1859 to have been no less than 71,979,765 tons, or nearly 20 per cent. higher than Mr. Hull's estimate. It being evident, then, that the more recent the period at which Mr. Hull's figures were correct, the more incorrect will be his conclusions, we will take a very charitable view, and suppose that he has taken the figures for 1849 instead of 1859; this would give an increase in ten years from 60,000,000 tons to 71,979,765 tons, which is equal to about 2 per cent. average increase per

to reconcile Mr. Hull's statements; for, according to his calculation, we have but 60,000,000,000 tons of coal, nearly 660,000,000 tons of which will have already been consumed. To supply the demand during the ensuing ten years, supposing the annual increase to continue as before, upwards of 800,000,000 will be required; whilst in the succeeding ten years, to maintain a proportionate increase, a further exhaustion of nearly 1,000,000,000 tons will be necessary. Were the present gradually increasing demand to continue, it might reasonably be calculated that during the next century we should exhaust more than one-half of the entire stock, and the exhaustion would continually become more rapid.

But in judging of the great value of Mr. Hull's book, it is not to the prophetical portion alone that we must look; indeed, we regard the historical facts and practical details to be of considerably greater importance. The question of the probability of coal having been used by the ancients is carefully considered, and Mr. Hull comes to the conclusion that it was, at least, known as early as the time of Theophrastus (n.c. 238), who describes in brief but determinate language the nature, uses, and source of coal. He contends, moreover, that the Ancient Britons worked coal, and that the Romans were acquainted with its use during their occupation of Britain is highly probable. Upon the derivation of the term "coal" Mr. Hull gives some interesting particulars, and then continues the history until we find from coal being vaguely mentioned by authors referring to other subjects, it becomes one of the necessaries of life. The various coal fields are then minutely described, the details being so carefully given that they could, doubtless, be profitably consulted by all connected with the

working of collieries. The work is amply illustrated by geological sections and diagrams of fossils met within the carboniferous strata, and, as a whole, forms one of the most complete han.'-books upon the subject of coal which has yet been published

REPORT FROM NORTHUMBERLAND AND DURHAM. [PROM OUR CORRESPONDENT.]

JAN. 24.—The Coal Trade continues tolerably active here. The weather has changed completely, the severe cold having given place to fine, genial, spring-like weather, and the movements of shipping have become active. The sinking of the Bewick Main Ouston Coal and Iron Company is still persevered with, and the greatest difficulties are now almost surmounted. persevered with, and the greatest dimenties are now almost surmounted. From the surface to a depth of 25 fathoms a mixture of clay, rubble, and very fine sand is met with, and great expense has been incurred in getting through it; indeed, nothing but the most dogged perseverance, and the exercise of great skill, would have availed to make progress through it of great skill, would have availed to make progress through it.

The present shaft was commenced 22 feet diameter, and this was by a stong lining of metal segments, commonly called tubbing-this was out down. en this was got down a certain distance another circle was inserted in

at all. The present shaft was commenced 22 feet diameter, and this was encased by a stong lining of metal segments, commonly called tubbing. When this was got down a certain distance another circle was inserted inside this of a smaller size, and so on; at present the lowest circle is 10 ft. diameter, and the bottom of this is only 9 or 10 in. from the rock. Great exertion has been used to force this down on to the rock by means of hydraulic pressure, &c., but hitherto without success. This is anxiously wished for, as it is not desirable to have the permanent size of the shaft less than 10 feet. The rock once reached the shaft will proceed rapidly. The sinking is in the charge of Mr. Coulson, of Durham, the eminent sinker, and Mr. J. Easton is the principal engineer; great credit is due to both for the progress already made under the most difficult circumstances.

An important meeting has been held to take into consideration the proposed scheme for the drainage of the Tyne Collieries. Mr. Matthew Bell occupied the chair, and Mr. J. J. Taylor stated the case for the promoters. He said it fell naturally to his lot to describe the coal field on which it is proposed to operate, with a view to amend the exceedingly untoward state of things which now existed. He took the initiative in the matter several years ago, not with a view to his own interest, but because he wished to see the Tyne placed in a prosperous position. Certainly at this time that position, as regarded the coasting coal trade, was a declining one. The interest of the district, especially the manufacturing interest, he believed, would be promoted by the scheme now proposed. Beyond this he had no interest to serve. His friends, Mr. Anderson and Mr. Easton, were coadjutors with him. They had framed a bill, and he hoped they would successfully carry it through; he hoped this influential meeting would sanction it. He then described the part of the coal field inundated, and the proposed mode of drainage. The extent of it is about 39 square miles, and the wa

The promoters have drawn the schedule up on a graduated scale of 73.64, 55., 25. 64, and 18. per acre.

It is to be sincerely hoped that the scheme will meet with the support it deserves, and be carried out, as it will ultimately confer great benefits on the Tyne. But the meeting was very far from being unanimous. Several gentlemen, representing influential lessors, objected strongly to the proposed mode of raising the capital, and also the mode in which the measure has been brought forward. They contend that the lessors ought to have taken the initiative, which appears reasonable enough. The argument of Mr. Taylor, as to the insecurity of metal tubbing in shafts, appears to prove a great deal too much, as, if correct, what becomes of half the large collieries in the kingdom; for they are almost all dependent for their safety and security on metal tubbing. But, this is generally considered to be perfectly safe and secure. The amount of pressure to be resisted being known, the segments are made of sufficient strength to resist the pressure; and in many cases immense feeders of water are tubbed back, which it would be quite impossible to lift by means of engine power. The case of Hebburn is quite exceptional. The tubbing was, no doubt, put in very carefully in the first instance, and was sufficiently strong to resist the pressure then expected. But the gradual rise of the water in the High Main increased the pressure, and so upset the calculations; and the consequence was the fracture of the tubbing, and consequent loss of the colliery. The Tyne drainage schemes ought to rest on its merits as a commercial speculation—a basis broad enough, and perfectly sound. The proposed mode for raising the 60,0004, appears likely to produce much dissension. It is proposed to tax coal in lease and out of lease. This is cortain to be opposed, as coal in the latter position may not be productive for a long period in come. Again, the proposed boundaries include many properties which are now quite secure from water, and the tax coa

REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE.

REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE. [FROM OUR CORRESPONDENT IN CHESTERIELD.]

JAN. 23.—The complicated position of American affairs and the fenrs as to a continued supply of cotton have produced a further depression upon trade, and the prospect for the future is somewhat gloomy. The breaking up of the fivest has done much towards relieving the great amount of destitution which prevails all over the country, by enabling those who were dependent upon outdoor labour to resume it. Notwithstanding the dull state of the fron Trade generally, there are indications that some departments of it will become very active in the course of the spring. We allude to the more extensive birdeuclion of iron into our shipping and the great number of projected lines of railways, cx. "solons, &c., which must draw largely upon the iron resources of the onor its entire the control of the production of iron into our shipping and to work the ironstone found in Lincolnshire. Derbyshire is also producing a large increase in the native ore, but the most remarkable augmentation in the production is to be found in the Cieveland district, the consumption of which for the local mils and foundries and shipments during the past year have been estimated its allowed the control of th

explosion occurred, causing great have with the covering materials, making it clear that he efforts made to put out the fire have proved futile. Such a circumstance as a fire aging in the pit for more than three weeks is unprecedented in this district. It is now roposed to fill the pit with water, as the only means of extinguishing the fire; the lamage done by which must be very considerable, and will probably never be accustly ascertained.

tely ascertained.
The extensive pottery works at Burslem, formerly in the possession of Messi
doso, have now passed by purchase into the hands of Alderman Sir James Du
the City of London, and of his nephews, Mr. James Duke Hill and Mr. Joi
II. These works, known in the trade as the Hill Works (now doubly entitle
me), have for a long time enjoyed a high reputation for the excellence of theil
reris, the fictile manufactures have in Sir James Duke obtained a second repretin the Legislature and in the Corporation of Long mr.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES. [FROM OUR CORRESPONDENT IN SOUTH WALES.]

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

[RROK OUR CORRESPONDENT IN SOUTE WALES.]

JAN. 24.—Unsatisfactory as the state of the Iron Trade in this district has been from time to time reported to be, a depression still greater appears to be gradually spreading, and were it not for the unusual briskness by which the coal trade is, and for some months past has been, characterised—a briskness, by the bye, which has induced a movement upon the part of coalmasters for another rise in price—the condition of the working population in many localities would be such as to occasion considerable auxiety. As it is, at Merthyr and other places great distress prevalls, and the charitable do their best to comply with the demands made upon their resources. The differences in the United States, arising out of the slave question, combined with the gloom which continues to hang about the European horizon, have created such an uneasy feeling, that manufacturers are reducing their operations to the lowest possible scale, and at various works large numbers of men have left, are working out their notices, or have been placed upon four or five days a week. It is to be feared that in some instances total stoppage will be the result, and the suppanion of all work which is not at once remunerative, or is all the continues to a supparation of all work which is not at once remunerative, or is all attentions in and additions to machinery, be followed by a similar state of things in the own to the continues of the continues to a supparative department. Those iron making firms which also export coal tax their energies as far as possible in that direction, to enable them to make a better stand against the times. Fortunately, the demand is still equal to the supply, and the market has not evinced any indications of a glut.

The Coal Trade returns for the last month show the following particulars as regarded the South Wales ports:—While the quantity of coal and coal material state of the various ports in the United Kingdom was 399,482 tons, and JAN. 24.—Unsatisfactory as the state of the Iron Trade in this district

practice upon the magistracy, by putting into force the extreme power of the law.

After an adjournment from the previous Thursday, as stated last week, the coroner's investigation into the cause of the explosion at likea was renumed on Monday, before Mr. W. H. Brewer, being the eighth day of the enquiry. Mr. Thomas Evans was the Government Inspector present, Mr. Brough being absent. John Thomas, a coller, was the first witness examined. He worked in the first east level. No. 2 cross-heading. On the morning of the explosion he descended the pit, and in his place of working found 3 or 4 yards of gas. He held his lamp up and it filled; and he put it back, with that of the boy who was with him, 6 yards from the face of the working, and about 2 yards from the gas, and turned back into the dark 6 or 7 tons of coal he had down. Before he went into his stail he saw an all-right chalk mark, but he could not say whether it was placed there that morning or not. Adjoining his stall were some old workings. He never examined them to see for gas. There was a fall at the face of his stall, and where the air used to travel, but it sid not that morning. About a fortnight before the explosion he began to open thaf stall, although it was his old place of working. When he went to the face of the working he saw the fall had come down, and that there was very little space for the air to go that way. At that time there was no gas, but a day or two after he found a little, which increased daily until the morning of the explosion. All that time he never saw the fireman try for gas in that place; neither did he ever the explosion he began to open thaf stall, although it was his old place of working. When he went to the face of the working he saw the fall had come down, and that there was very little space for the air to go that way. At that time there was no gas, but a day or two after he found a little, which increased daily until the morning of the explosion. All that time he never saw the fireman try for gas in that place; neither did he ever complain to anybody.—The Coroner: Why did you not tell the fireman about the gas?—Witness: If I did interfere with the examination of the workings it would be the means very likely of my getting the sack, and I am a man with a family: that is the truth. I have seen men driven back when they have come out of the stalls to complain of fire, once by Evan Beddow, and once by Mr. Harrison.—The Coroner: I that the general practice to make men work where there is danger?—Witness: I cannot say. I have seen that.—The Coroner: II Derrick, the fireman, had visited your place the night before the explosion you think he must have found gas?—Witness: Yes.—The Coroner: And plenty of it?—Witness: As much as I have stated. In answer to Mr. Evans, the witness said no cross timbers were put up before his stall that morning, neither had he been told by the overman or fireman to leave. Mr. Evans, read rules 13 and 19, which had thereby not been acted up to. Mr. Liewellin, the company's solicitor, called attention to rule? I, which proved that a workman on discovering gas should give notice to the nearest responsible person; and a jury man observed that the witness ought to be ashamed of himself for allowing his stall to remain full of gas without reporting it. In answer to Mr. Liewellin, the witness instanced a case when another man and himself left their workings because of gas. They were ordered back; witness related to go, and left the pit; both of them were, now it is a stall gard to the stall generally and been proved to a stall gard to the stall generally had been prefet free, except at times. Th that an additional door was required in his heading, and one was supplied within a fort-night, though not put into working order. He deposed to several of the ways beling out of repair. The succeeding witness, however, John Harrison, who worked with him, and is still in the employ of the company, and whose brother-in-law is overman in the Kock Vein Pit, contradicted him in almost every particular. With his examination the day's Prior to commencing business on Tuesday, Mr. Phillpotts, the manager,

Prior to commencing business on Tuesday, Mr. Phillpotts, the manager, said he wished to withdraw an expression made by him on a previous day, to the effect that Mr. Morgan Morgan was discharged by him for drunkenness, and which he said he had uttered during a desultory conversation, and when excited by some observations used upon the occasion. Although Mr. Morgan was with an agent who was drunk, he had reason to believe Mr. Morgan observed—I am perfectly agreeable to accept Mr. Phillpotts's retraction, that I was not drunk, and that it had nothing to do with my discharge. Still it was an unmitigated falsehood to say such a thing of me. The coroner then renewed his order for Mr. Morgan Morgan to go down the pit, and Mr. Brough expressed a hope that every facility would be extended him. Mr. Phillpotts said there would be no difficulty; and Mr. Palmer, an experienced viewer, of Bedminster, Bristol, offering to accompany Mr. Morgan, his offer was accepted. Elward Thomas, the butty of Thomas Phillips, who gave his evidence at the previous sitting, said he frequently foling as in the stail, and upon an old gob near there was some. Hecompiained of the gas to Edward English, the freman, who said nothing in reply; neither did he know whether any one was sont in consequence to make an examination. He worked about 12 months in the place, and it was scarcely ever clear there; but he did not always tell the fireman, because he trusted to his butty. Mr. Brough asked the witness why he had not communicated with him, and not have risked his life?—Mr. Owen; I don't suppose he ever heard of a Government Inspector before. Jas. Davies, collier, working at Abercarne, in the course of his evidence, awore that he was discharged from Risca by Mr. Harrison for refusal to work where there was gas. Mr. Harrison was recalled, and positively denied the witness' allegations, and that its discharge, and that of his brother, arose of raisonal to put up a brattice he ordered when he examined the place complained of. Witness and the had had no

collier, said he worked at the Black Vein for 13 or 14 years. He left at the strike. Resumed employment there about a year ago. He worked almost at the far end of the first wast level. Had gone out several times in consequence of gas. On the day before the explosion Mr. Harrison told him to leave his stail, as the gas was there. He went in to make him consider there was danged. He never telled or gas shout the old working heart his stail, neither had he seen the overman do so. When he complained to the first man he was not sent back. He never felt any hesitation in complaining through frea or being discharged. During Friday night he did not know that anything was done, or obeing discharged. During Friday night he did not know that anything was done, or athat anything could be done, to his place. W. Parfitt, now employed as an oatlerat the Albert Inn, Blaca, had worked in the foorth seat as a collier up to within six or seven wasks of the explosion, and had found gas in his stail. His lamp would get red hot, and he had to leave. He would be kept out sometimes for hours. After an examination by the first had been been an hear of a supplemental to the stail and remain there for day before gas popeared again, the fourth seat at Bisca than ever he saw in his life. The witness alleged that great the course of the stail and the place fall down while the witness was last at work in the fourth east, and had no right there. In answer to Mr. Brough, the witness and—they the bratice about 4 yards before; sometimes we had trouble to get brattice, and sometimes we had not.—Iy Mr. Owen: Had never found gas for a hour or two at least after the visit of the framan. Had to work as much as a day with the witness and—the work of the start in the visite of the framan. Had to work as much as a day with the witness and—the work of the start in the start of the start o

THE IRON AND METAL TRADES OF STAFFORDSHIRE. [FROM OUR CORRESPONDENT AT WOLVERHAMPTON.]

JAN. 24.—The Iron Trade is not worse than it was, and some account are a shade more hopeful, but if there is any improvement, it is very slight. A considerable number of blast-furnaces are blown out, or are about to be put out of blast, so as to cause an important decrease in the make of the district. Prudence has long dictated this step, for stocks have been for some time accumulating, and there is little prospect of an advance in price sufficient to pay interest on the value of pig-iron kept in stock. Remembering how large is the number of furnaces out of blast, and that an advance of a few shillings per ton would lead to many of them being re-lighted, and the supply thus increased, nothing but a very largely-increased demand can lead to a considerable advance in the price of pig-iron. And it would be difficult to say from what quarter such a demand is to come during the present year. The course events are likely to take in the States of North America is too uncertain to justify any specific opinion, but under the most favourable circumstances that can be imagined, the political convulsion there must prevent there being a good trade with this country in 1861; whilst in the event of actual war, followed, as it almost inevitably would be, by the partial destruction of the cotton crop, a blow would be inflicted on English commerce difficult to estimate, and, perhaps, unsurpassed in the experience of this century. Again, the most hopeful anticipations can scarcely go so far as to expect an active trade with the European continent, and the East Indies cannot make up for other drawbacks, including the some time accumulating, and there is little prospect of an advance in price scarcery go so far as to expect an active trade with the East Indies cannot make up for other drawbacks, including the deficient harvest of last year. Gloomy presages are always unwelcome, and often to be deprecated, but it is important to look facts in the face, and to prepare for what reasonable inferences from facts indicate as probable in the future.

The Hardware Trades of this town, Birmingham, Walsall, and the district generally, continue very slack. Since Christmas there has been a re-

The Hardware Trades of this town, Birmingham, Walsall, and the district generally, continue very slack. Since Christmas there has been a remarkable falling off in the orders received, and many of the manufacturers, who are limiting their workmen to three or four days' work in the week, are even with that reduction of their make filling their shelves with stock. There appears to have fallen upon the country generally a gloomy feeling, which is contracting the purchases of shopkeepers. Some improvement in these trades may be hoped for as the spring advances. The failure of Messrs. II. Smith and Son, railway contractors, of Birmingham, has been announced. The liabilities are put down at 20,000L, and the assets at 8000L. The colliers in this neighbourhood, whose "stents" have been increased, have generally acceded to the new regulation, which is equivalent to a considerable reduction in wages. Should the present depression continue it is probable that an equivalent decrease will be made in the wages of those employed at the iron-works.

employed at the iron-works.

The horse-shoe nailmaker

is probable that an equivalent decrease with or made in the wages of states employed at the iron-works.

The horse-shoe mailmakers' strike continues, and the masters have recently met at Dudley and determined to resist the demand for an advance of wages. Another case of bellows cutting has occurred. The person whose shop was entered on the morning of yesterday (Wednesday) was a man named Isalah Cartwright, Ilving at the Lye Waste. He was a member of the Union, but employed a workman named Benjamin Taylor who was not a member, and they were at work notwithstanding the sirike. A man named David Pearsen, a member of the Union, was seen coming out of the shop early on Wednesday morning by a young woman who knew him well, and who spoke to him. He had in his hand the "puffers" belonging to Taylor, and on examining the shop it was found that Cartwright's beliows were rendered useless by being cut. The prisoner has been committed for trial.

A boiler explosion at a colliery belonging to Messra. Aston and Shaw, near this town, was noticed in this letter last week, by which a man was killed, and the enginemal injured. On Tuesday last another boiler burst at the zame works, killing two mendoen believed to the state of the engine to which the boiler that burst was attached. The boiler had just been cleaned out, and was being got to work when the accident occurred. The deceased and John Evans, who had just given up the charge of the engine to Legge, were in the house, which was built close to the boiler which exploded, having just taken the ordinary allowance of ale on the cleaning out of the boiler. It burst with a report which was heard for a considerable distance. The boiler, which was 25 ft. long, was srewed transversely, and the parts deven in opecited directions, alighting some 200 yards from their original the was 25 ft. long, was serewed transversely.

lowance of ale on the cleaning out of the boiler. It burst with a report which was heard for a considerable distance. The boiler, which was 26 ft. long, was arewed transversely, and the parts flew in opposite directions, alighting some 200 yards from their original seat. The stack was knocked down, and one side of the engine-house knocked in. One part of the boiler struck the house, which was crushed into a ruin, Elwail being extracted quite dead, and Legge in a state which terminated in a hour at the hospital in his death. Evans whs near the deor of the house when the boiler burst, and the force of the steam and agitated air carried him a considerable distance. He suffered from being scalede, but, very remarkably, escaped being struck by any of the bricks, &c., displaced. The appearance of the plates lead to the supposition that the boiler was only partially supplied with water. The inquest is fixed for to-morrow.

Two men and a boy were seriously injured by over-winding at the Wednesfield Heath Colliery, on the 15th inst. The engine-tenter had to stop his engine as he was lowering the skip, and by mistake re-started it in the wrong direction, so as to raise instead of lowering the skip in which the three were. Happily for the poor fellows, the banksman was on the slert, and managed to get the cover on the pit so as to prevent the certain death which must have ensued had they gone down the pit. As it was, one had is thigh broken and another his arm dislocated. Considering that such accidents may be prevented by several appliances, and how frequently they happen, it is strange that the necessary precautions for their prevention are not taken.

John Blow, a butty collier employed at a colliery belonging to the Silverdale Company, was summoned last week before the magistrates by Mr. Wynne, the Government Inspector of Mines in North Staffordshire, for neglecting, as provided by the special rule, to examine a pit under his care previous to the men descending to work there. The result of his neglect was that an expl

sult, Evans was killed, and the other three men so seriously injured as to leave little hopes of their recovery. The circumstances of the case are not yet fully cleared up.

REPORT ON CORNWALL AND DEVONSHIRE. [FROM OUR CORRESPONDENT IN TRURO.]

I have already referred generally to the various extensive operations of the CARN BREA MINES, and have now to add the few following details as to the relations of the different workings. They do not profess to be other than imperfect and incomplete, for a complete description of such an extensive series of mines would entirely exceed any limits at my command. I have stated the sett of the mines is about 1050 fms. long on the run of the lodes, with an average width of about 500 fathoms. The lodes smand. I have stated the sett of the mines is about 1050 fms. long on the which traverse this length are intersected by seven different cross-courses, which, taking them from west to east, are in follows—I. Highburrow, or which, taking them from west to east, are in follows—I. Highburrow or which, taking them from west to east, are in follows—I. Highburrow or have a simple them from west to east, and the seven to the sett of the boundary in the winds of the sett of the boundary. In the follows of the sett of the boundary.

The first proper is the sett of the boundary in the vertical part of the sett, this crass-course is about the west of morth, they are 50 ms. apart on lightburrow lode, in the creater as a set of the west of morth, they are 50 ms. apart on lightburrow lode, in the northern part of the west—A follows the set of the west—A follows of the settern bearing of the old sump crass-course, they follows the settern bearing of the old sump crass-course, they follows the settern bearing of the old sump crass-course, they follows the settern bearing of the old sump crass-course, they follow the settern bearing of the old sump crass-course, they follow the settern bearing of the old sump crass-course, they follow the settern bearing of the old sump crass-course, they follow the settern bearing of the old sump crass-course, they follows the settern bearing of the old sump crass-course, they follows the settern bearing of the old sump crass-course, they follows the settern bearing of the old sump crass-course, they follows the settern bearing of the old sump crass-course, the settern bearing of the old settern bearing of the settern bearing the settern bearing of the settern bearing the settern

(166) to the deepest cross-cut (154) a depth of 22 fms., the water in New Druid shaft is drawn by a 5-in. pole. There is a slight peculiarity in the laying out of these fiat-rods, which is worth referring to. In Barker's shaft the stroke is 7 ft., but the angle-bob at the 130 is so arranged, one arm being 14 ft. long and the other only 9 ft., that through the cross-cuts the stroke is shortened to 4½ ft., but is lengthened again in the New Druid shaft to 6 ft. In the case of other fiat-rods, Capt. Daw has also adopted this system of shortening the stroke in the cross-cuts, and again lengthening it in the shaft. On this mine the workings extend west to the boundary shaft (so called from being on toe boundary of lands formerly belonging to different branches of the Basset family, but now all the property of the present head of the samily) a distance of about 105 fms. from New Druid shaft. The 120 is extended west to this shaft, and also east considerably, to Monument shaft and Old Druid Mine. The bottom levels here are opening outgood ground. The 144 and 164 are each driven each of Sykes's cross-course about 10 fms., coming up towards Monument shaft (down nearly to the 120), but which will be ultimately sunk and communicated to those levels. West, these levels are driven each about 60 fms. from shaft. The 166 is only driven 3 or 4 fms. each way. I have no space to give details of these levels, but I may say that this is a very promising part of the mine. From Monument shaft east the extensive workings of the Old Druid Mine extend for 200 fms., but there is not much doing here at present.

MR. WATSON'S ANNUAL REVIEW OF MINING-ADDENDA.

MR. WATSON'S ANNUAL REVIEW OF MINING—ADDENDA.

HAWKOOR MINE.—This joins the Bedford United, and is upon the same lodes; the one prosecuted by this company being the Marquis lode, that has yielded dividends for so many years past on the Devon side of the River Tamar. The eastern shaft at Hawkmoor during the last seven years has been sunk from the 10 to the 70, and is now down nearly to the 80, the lode containing good stones of copper ore for 4 ft. wide, fully warranting the belief that it will prove a good and productive one on the Cornwall side of the Tamar; the run on its course westward from said shaft is no less than 500 fms., at which the killas forms a junction with the grantle. The 70 east and than 500 fms., at which the killas forms a junction with the grantle. The 70 east and than 500 fms., at which the killas forms a junction with the grantle. The 70 east and than 500 fms., at which the killas forms a junction with the grantle. The 70 east and than 500 fms., at which the killas forms a junction with the grantle. The 70 east and than 500 fms., at which the killas forms a junction with the grantle. The 70 east and the 70 mills of the 10 mil

ucing low quality tinstuff.

Silver Rake.—This mine is located in the Halkin Mountain, and on

share. Cobbler's shaft has been sunk 12 fms., reaching the 80—lode 10 ft. wide, producing low quality tinstuff.

SILVER RAKE.—This mine is located in the Halkin Mountain, and on lodes that wherever worked have proved very productive. The works are in a forward condition; shafts are already sunk, and drawing goar erected, &c., which will save the present company a large sum of money, and almost years of time. Operations are being prosecuted on one of the veins at a depth of 60 yards, and in about two months they expect to come under a course of ore seen to the east, now under water, but which the present driving will completely frain. The driving this level at the 60 has been continued from a shallow or cross-vein, that takes off all the water. A noticeable feature in this property is that the two main lodes, running for a mile through the grant, will form a junction in about 20 yards in the engine-shaft, now sunk to the 60; the lodes underlying towards each other. The mine is divided into 100 shares. Cash balance in hand, 4554; and Mr. T. P. Thomas is the manager.

SOUTH CRENVER.—Such has been the confidence of the holders of 2220 shares, the remaining 2780 shares having been abandoned (the total having originally been £000), they have persevered through evil and good report. Notwith-standing the expense to their pockets has been thereby doubled, they have succeeded in establishing the important fact that the value of the ore in quality at and about 117 fms. below add to start that the value of the ore in quality at and about 117 fms. below add to start fact that the value of the ore in quality at and about 117 fms. below add to start fact that the value of the ore in quality at and about 117 fms. below add to start fact that the value of the ore in quality at sund about 117 fms. selow those contributed 81 fms. deeper those additions and other top of the list of copper ticketings for many every serven years specified ore that realised only an average of 31. 10s. per ton; but from about the 120 to 80 or 96 fms.

TRUTH'S ECHOES; OR SAYINGS AND DOINGS IN MINING.

a large quantity of good orey work will be brought to surface, and samplings will immediately follow.

Fure Hill Wood Mine.—Attention has been drawn to the prospects of this mine, which has been recently inspected by Capt. C. Thomas, whose favourable views of the property is an important recommendation. The new shaft is down to 19 fathoms from surface, and intended to be smk to the 33, or 20 fathoms under adit and old workings, when three iodes will be intersected within 20 fathoms drivage, and two others by a further extension of a few fathoms, which will be accomplished in six months, when upwards of 100 fathoms of orey backs will be laid open, and, from the productive character of the lodes gone down, will, no doubt, prove highly productive at that point.

At Grazar Wersel Martin the lock in the 40 east continues a fine course of ore, and is improving in quality. There are several other places which are indicative of a very great improvement, and the mine is generally reported as holding out good prospects for a permanent mine, notwithstanding the great omission of the shaft not being sunk. On Wednesday 200 tons of good quality ore were sampled, and they have upwards of 100 tons undressed at surface and underground broken; but the want of a crusher prevents the ore being rendered as marketable as it otherwise would be.

Ket Hill United: The north or main lode is opening out remarkably well, and all the other working places continue productive. Another life will bring them down to

the deep adit, where there is a good lode at a depth of 36 fms. from surface. It is reported that they do not intend to sell any more tin until April next, when they will have upthat they do not intend to sell any more tin until April next, when they will have up-wards of 22 tous ready. — Where Ledward has very much improved, particularly in the 60 west, where the lode is worth 50, per fm., The 70 is worth 13t, per fm., and about 6 fms. behind the 60, which appears to improve as it approaches the ore ground from above. — Sourn Devon Ministo Contravs: In that portion of this property called the Atlas Mines it is reported that they have discovered a lode rich for tin, in driving a cross-cut at the 25 from Sarl's shaft, and although estimated at 80t, per fm., the full size of the lode has not as yet been accrtained. —At Yarker Mines a discovery was made about three weeks since, in the 30 east on the north lode, which holds to the present time, being worth 7 tons per fm. of good quality ore; solid stones of 2 cwts. have been brought to surface. The 30 east on south lode has also improved, and worth from 15t, to 20t, per fm.

GREAT TREGUNE continues to look remembrably well for an important Alcourse.

M. to 201, per fm.

GREAT THEOUNE continues to look remarkably well for an important discovery. The
de at the 80 has every appearance of approaching a course of ore, and is now very near
se point where it is expected to be met with from the direction it took going down from

GREAT TREGUNE continues to look remarkably well for an important discovery. The lode at the 80 has every appearance of approaching a course of ore, and is now very near the point where it is expected to be met with from the direction it took going down from the 70 fathom level.

West Shart Ton.—When a mine has been worked for years with much perseverance, without any returns to encourage, it is gratifying to learn when a change takes place. It is reported that a very favourable change of ground has taken place in the shaft, which has become much easier, and it is hoped that great results will shortly follow. WHEAL MOTLE.—The engine is nearly completed, and will, it is expected, be started in ten or twelve days from the present time, shortly after which they will be in a position to return about 4001. worth of copper and tim. As soon as the steam-stamps are completed large and regular returns will be made.

At East Rosewanks, the water is being drained but slowly, and it will take some time before it is in fork.——At Rosewanks United the water acts very heavily. The account held on Monday shows 3004. against the mine. The sampling this week is computed at 70 tons.——East Alphed or Comper ore.—At WHEAL HARHETT there is no material change to notice since last week's report: the 100 east continues worth 501, per fm.—At Theorizow Consols they have made a very good discovery of tin, and although shallow, the lode is producing large rocks of good paying work, and from its geological position there is very little reason to doubt of its continuance.—Old Tologou United States of tin, and from the nature of the ground in the cross-cut south they expect soon to intersect the south lode, which all miners assert to be the best lode in the sett.—Great Nuttin Tologos.—The operations here are being pushed on with vigour; the lode recently intersected in the 16 is of a very encouraging character, and from 3½ to 4 feet wide, but from the quantity of water issuing from the end the driving has been limited. As soon as the necessary p

ntry is better known, it was considered a mere temporary matter, and which has been proved, as they have gone through the cross-course, and found the lode look very well on the opposite side.

JAMES JAMES.

Since been proved, as they have gone through the cross-course, and found the lode looking very well on the opposite side.

From Mr. James Crofts:—Scorrier Consols: A private communication reports a balance of nearly 6001. In hand over and above all bills due up to the end of John and a landatory tiem is certainly that of charging up costs to the very latest moment, upon which the management deserve complimenting. Stray Park Issue a circular dated Jan. 22, intended chiefly to combat an adverse report emanating from a London office, to the effect that tinstuff valued at 11007, will not yield more than 2407. There is a wide difference to be sottled by the parties concerned, the managera asserting that "they have or reas." From other Cornick sources it is stated that there is a good lode in the wines between the 180 and 190, whilst an important improvement is expected in the lode in the 190. Four points in the levels from the 170 to the 192 are worth 1071. per fm. Those reports will steady and improve the shares.

Gleaning and Gostr.—North Mineral has often been alluded to as constituted in 1,0,000 shares, 6000 paid up 208, and 4000 subject to periodical calls, upon which 5s. has now been paid in two instalments. The success of this mine is undoubted, to which this point the writer remarked some time since that when a party treats a good London business as a broker as a secondary matter, and "fixes" a residence on a mine in Wales, the point the writer remarked some time since that when a party treats a good London business as a broker as a secondary matter, and "fixes" a residence on a mine in Wales, the point the writer remarked some time since that when a party treats a good London business as a broker as a secondary matter, and "fixes" a residence on a mine in Wales, the point the writer remarked some time since, while the distillation of the top of the point of the point

From Mr. Edward Cooke.—There has been rather more business doing than for several previous weeks, and with the favourable change in the weather, together with an easier money market, the mining market will rapidly recover from the depression that has existed for some time past. A decline in the price of tim has caused a de. the in the market value of several of the mines that produce this mineral. This is gens waily supposed to be of a temporary character. A favourable re-action has taken place in the standard for copper ore. Athough at present the rise is comparatively small, still it is a step in the right direction, and indicates well for the future. As the apring app. Taches, and consequently longer days for outdoor operations, a stimulus will be given to the mining interest. Good mines should now be selected for investment. Those who h. Mi shares in mines that possess real merit, and which have been purchased at high prices, would do well to purchase an equal number of the same before the price advances a can disastisation appears to be felt at the sudden reaction in the price of these sharts, and also at the sudden decline in the value of the iode in the shaft, which was studed—although, I believe, not officially—to be worth above 2001, per fm. Unless an improsyment takes place the shares can scarcely maintain their present price. The report from Burs Gwnog is highly satisfactory. There are good stones of lead already in the May and level west, thus showing indications of its being the top of the run of lead at its is now being worked on below. It will be remembered that the winze sinking below this level was last reported to be producing 6 tons of lead per flat fathom of ground. This winze has been assepted on account of the water being too quick. The 135 yard level, however, will soon be driven under this, when the winze sinking below this level was last reported to be producing 6 tons of lead per flat fathom of ground. On referring to the plan of the mine, it will be seen at once how highly important t From Mr. EDWARD COOKE, -There has been rather more b

able mineral properties in Wales.

Having on so many former occasions written on the merits of North Minera, it affords me much pleasure to witness its growing importance. It is only fair to observe that the mine is being worked on the best principles, without resorting to any unfair means to cause a fictitious price for the shares, by raising lead at any cost, after the manner of other mines in the same locality. A quantity of lead is being raised, and good reserves left behind. My expectations with regard to Warra Mover have not been

11

is not the sli Wheal Moy

I am informed that it will be set to work on Feb. 2 next. There is not the slightest reason for altering the opinion that I have before expressed:—that Wheal Moyle will become one of the best mines in the best district in the world. In sympathy with shares in all other mines, Winkal Citle has recoded, and I strongly advise them to be purchased; for I have a firm conviction that they will be cent, per cut. higher in six months without calling on the shareholders for a farthing.

Strax PARK shares, nowthistanding all the uniavourable rumours that have been circulated, have steadily advanced in price; this is no more than was anticipated after such a heavy fall. East Russell shares have fluctuated considerably. It is difficult to hazard an opinion in the present state of the market for these shares as to the probable chance of a rise or fall. For a long time past a large number of shares have been held by weak speculators, and advantage has been taken of their position during the depression of the market by other speculators to intimidate them into selling at ruinous prices. I have not hesitated to state on several occasions, when these shares stood at 111, to 122, that it was quite a fancy price for the mine, and which the prospects did not at all warrant. Now they have recoded to 84, it becomes a question whether they ought not to be bought. I hope in my next to be enabled to report a further improvement in business generally, which present appearances gives great encouragement for us to hope will soon take place.

P.S.—The accounts from Wast Burn Gwood being very favourable a good demand has ment in basiness generally, which present appearances gives great encouragement for to bope will soon take place.

P.S.—The accounts from West Brix Gwico being very favourable a good demand hisparing up for the shares; there are only 100 shares in the mine.

MINING NEWS FROM AUSTRALIA.

Melbourne, Nov. 24,—I have only time to write you a brief and hur-ried letter by this mail. It was expected that some important result-would have followed a careful exploration of the streams of Gipps Land

MINING NEWS FROM AUSTRALIA.

Melhoustra, Nov. 24,—It have expected that some important results would have followed a careful exploration of the streams of Gipps Land, but up to the present time no great discoveries have been made. Mr. A. W. Howith has discovered about 30 miles of country on the Dargo which is auriferous, sufficient to pay the miner from 10s. to 12s, per diem. Some patches are rich enough to pay 17, per week. The ground will require to be sinteed, but and only a few feet below the surface. Mr. C. W. Nicholson has cardilly examined the whole of the country east of the Tambo, and is of opinion that it is not a gold country: The product of the country of the Tambo, and is of opinion that it is not a gold country: The product of the country east of the Tambo, and is of opinion that it is not a gold country: I am informed by a person who has just returned from the spot that there are quite 700 people camped on the ground. Texts, shops, houses of various kinds, and not a little oppose to any on the product of the country of the co

FOREIGN MINES.

 Copiapo.—Checo Mine: Estimated produce for the month of Nov.:
 Quantity.
 Ley.
 Price.
 Value.

 First class ore.
 Qtst. 400
 30
 Ris. 32½
 \$1625

 Second ditto.
 , 1600
 17
 , 14½
 2900

 Third ditto
 , 832
 10
 , 520
 520

beginning of the month. The mine at present is not looking anything great.—S. UREN.

LUSITANIAN.—Jan. 15: Palhal Mine.—Basto's Lode: The lode in the 38, west of Taylor's engine-shaft, is 4 feet wide, composed of quartz, with a branch of copper ore, worth 1 ton per fm.—Levels East of River Shaft: The lode in the 38 is 1½ ft. wide, composed of quartz and flookan. The lode in the 28 is 2½ ft. wide, worth 1 ton per fm. The lode in the 18 is 2 ft. wide, composed of flookan and quartz. The lede in the 5 is in a very disordered state, being split in branches. The lode in the adit level, wort of Perez whim-shaft, is worth ½ ton per fm. The lode in the 8, west of ditto, is split, the north branch being composed of quartz, and the south of the country and small stones of copper ore. The lode in the 8, east of Perez whim-shaft, is 1½ ft. wide, composed of the country and small branches of spar. The lode in the stopes No. 1, in back of the 50, west of Eresto's winze, is worth 1½ ton per fathom. The lode in the stopes No. 2, in bottom of the 28, east of Clondino's winze, is worth 1 ton per fm. The lode in

the stopes No. 3, in bottom of the 38, east of Henrique's winze, is worth \(^1\)\squares ton per fin.

The lode in the stopes No. 4, in bottom of the 28, west of Clondino's winze, is worth \(^1\)\squares ton per fathom. The lode in the stopes No. 5, in back of the 38, east of Clondino's winze, is worth \(^1\)\squares ton per fin. The lode in the stopes No. 5, in back of the 8, east of the best of the stopes No. 6, in back of the 18, east of the best of the stopes No. 6, in back of the 18, east of the best of the stopes No. 7, in back of the 19, and the stopes No. 7, in back of the 19, and the stopes No. 7, in back of the 19, and the 18, west of the calmer half, is worth \(^2\)\squares ton the stopes No. 7, in back of the 3, west of the allele lode, is 1 feet wide, composed of flookan and small stones of lead. The best of the 18, west of the sunch that the stope in back of the 18, east of the sunch leads of the 18, west of the sunch leads winze, is worth \(^1\)\squares ton winze, is worth \(^1\)\squares ton winze, is worth \(^1\)\squares ton per fathom.—Caunter Lode: The lode in the 18, west of the Mill bable half winze, is worth \(^1\)\squares ton winze, is worth \(^1\)\squares to the stopes in back of the 18, east of Dea's winze, is worth \(^1\)\squares ton winze, in back of the \(^1\)\squares ton winze, is worth \(^1\)\squares ton winze, is worth \(^1\)\squ

of coper.—Side Lode: The lode in the 28, west of the Mill Icle, is I ft. wide, composed of flookan and a branch of ore worth ½ per ton per father.—Carvahlal Mine: The lode in the adit level west of the River Caima, is 3 ft. wide (2 ft. quartz and 1 ft. flookan). The lode in the adit level west of the River Caima, is 3 ft. wide (2 ft. quartz and 1 ft. flookan). The lode in the adit level west of the flower of the mount over the rise in the back of lead.

CENTRAL AMERICAN.—Nov. 24: San Pantaleon: The small shaft which was commenced at the early part of the mount over the rise in the back of San Hillario level has been sunk by six men 9½ varas; the lode in this shaft is 1 ft. wide, and presents a promising appearance. From a scarcity of hands we have been unable to continue the stopes in the back of this level, is 15 in. wide, producing about 4 cwts. of good and the lode in No. 4 stope, in the back of this level, is 15 in. wide, producing about 4 cwts. of good producing from 5 to 2 cwts. of good back of the same level, the lode is 2 feet wide, producing from 5 to 2 cwts. of good seak of the lode in the same level, the lode is 3 feet wide, producing from 5 to 2 cwts. of good seak of the lode in 1 ft. and 1 ft.

packet brought 180 bags of silver ore for the company.

WHEAL FORTUNE (Western Australia).—Oct. 31: We have carted from this to Champion Bay during this month 67 tons copper and lead ores; there are now at the Bay in all 200 tons of ore ready fer shipment. We have driven with two men this month south-west from the bottom of Scott's winze 2 fms. 3 ft., where the lode was narrow and poor, as was the case in the 8 fm. level; but in the last 3 ft. driving the lode has improved, and we are now in a rich branch of copper ore. North-east from Walter's shaft we have driven with four men 6 fms.; the lode throughout this driving has been good, and is improving in quantity and quality of copper ore. Some large stull timber has been put in at the bottom, and north of Scott's winze four men are employed stoping; the lode is large, and is producing good copper and lead ores. The mine looks well. All is put on a good system for dressing the ore and lengthening the mine workings below. We may now safely depend on raising 50 tons of ore per month, without materially diminishing our reserved stopes of ground, or increasing our mine expenses.

Nov. 23.—200 tons have been since shipped on board the Turtar, and 100 tons will be ready for the Lord Ragian in about three weeks from this time.—Martin Hoskin.

MINING NOTABILIA. [EXTRACTS FROM OUR CORRESPONDENCE.]

BRYNAMBOR.—We continue to receive very good accounts from our agent, Captain Edward Williams, of the mine, with some excellent samples of ore and gossan from the lode over the winze, going below adit. These specimens are very indicative of a good course of ore not far below. They certainly must be close to the bunch, as they contain beautiful lumps of lead, with white killas and stuff of a gossany nature, and when it is considered that these stones of ore stuff only come from 6 to 7 fms. from the surface, with the lode enriching for metal as it goes down, it encourages me to conclude that we are on the eve of sinking into a good mine—indeed, I am thoroughly convinced that we shall soon have a valuable discovery in this mine.—M. Francis.

GREAT ALFRED.—The straightforward and open course adopted by the esent committee must be very satisfactory to the shareholders generally. We hear the mine is looking well; that the sampling this week is 250 tons, with 60 tons ieft over.

At POLBREEN MINE the pitches are looking a little better than last month; they are very bunchy; the average gettings were very small. The agent thinks that this month it will be pretty well. They sold nearly 5 tons of tin on Jan. 17, at 161. 10s. per ton, and 20s. carriage.

At St. IVES WHEAL ALLEN the prospects are still exceedingly good.

At St. IVES W HEAL ALLEN the prospects are still exceedingly good.

WHEAL SETON.—An important discovery has been made here by crosscutting at the 130 cast. The main part of the lode, from which the heavy dividends
were made some years since, having been missed in going down, and the branch on
which the workings were carried on being poor, it was supposed the great course of ore
had died out in depth. Happily, this has now been proved to be incorrect. The crosscut above-mentioned has now reached the main part of the lode, and from present appearances there is but little doubt of the discovery now made being of fully as much
importance as that made some years since. The lode in the 130, east of cross-cut, will
yield 5 tons of ore per fathorn, worth 84, per ton; and west of cross-cut 6 tons per fm.
The levels in the western part of the mine continue to yield their usual quantities of
ore; and as the deeper levels are brought forward the samplings will be much increased.

At Elect Danney Mayer all the nitedose continue to right for inversable.

At East Darren Mine all the pitches continue to yield fair quantities ore. All the machinery has been in full work since Monday. They are dressing as at as possible, and hope to get in about 100 tons by Saturday.

At EAST ALFRED CONSOLS they have sampled considerably more ore than usual (104 tons); and but for the water having hindered them the sampling would have been much greater.

PROSPER UNITED.—The surface operations at these mines have been carried out with great spirit, and the 70-in, pumping engines are expected to be at work by the end of March. In driving up the shallow adit two large elvan courses were passed through, and then a very fine gossan lode was met with, which will, apparently, prove rich for copper at a shallow depth, and is likely to, add greatly to the value of the concern.

At Tolcarne very important improvements are taking place; the sump-Altogether

is is one of the most promising innes in the county, and great results at exposition. From Cwm Ersin Mine the agent writes that the new stope in the back the 32, about 80 fms. east of cross-cut, has improved—lode 5 feet wide, and yielding bout 15 cwts. of lead ore per fathom. The 20, going east of cross-cut, continues to look comising. The weather has changed: all hands resumed operations on Monday morning, and they hope, as their machinery is in good working order, to redeem lost time.

From East Wheal Tolgus the agent writes, that in the 46 east the lode is split in three or four parts, and it appears to them that there is s the south, and they are stripping down a piece of ground in search of it.

WEEKLY LIST OF NEW PATENTS.

GRANTS OF PROVISIONAL PROTECTION FOR SIX MONTHS,—R. N. MusGROVE, Philadelphia (U.S.): Street railway carriages.—D. A. Morris, Pittsburgh (U.S.):
Sheet-iron.—P. Spence, Newton Heath, Manchester: Separating copper from its ores,
—B. G. Storest, Hackney: Amalgamating and effecting the separation of gold from
earthy and other matters.—G. D. Mrase, Lake Chemical Works, East Jarrow: Manufacture of sulphuric acid, and separating copper and silver from their ores.—W. BAGLEY
and W. Minchen, Birmingham: Coating metals and alloys of metals.—D. Adamson,
Newton Moor, Chester: Steam-engines.—E. C. Shepard, Victoria-street, Westminster:
Carburating gas for gas lighting.—W. Longkaid, Inver, Galway: Hardening surfaces
of rails, and surfaces of tyres of railway wheels, and charring surfaces of timber used for
railway steepers.—T. T. Cinellingens.—W. G. Woodcock, West Bromwich: Wrought-iron
beams or girders and columns.—J. F. Spencer, Newcastle-upon-Tyne: Steam-engines,
and machinery and apparatus connected therewith.

DIED,—On the 18th inst., at Haigh, near Wigan, after a short illness, William Peace, F.C.S., for upwards of 28 years the agent to the Right Hon, the Earl of Crawford and Balcarres in the 51st year of his age.

THE CWM AFON COPPER MINING COMPANY (LIMITED)

WASHINGTON BUILDINGS, BRUNSWICK STREET, LIVERPOOL.

WASHINGTON BUILDINGS, BRUNSWICK STREET, LIVERPOOL.

ISSUE OF PREFERENCE SHARES.

This company was formed in June, 1859, for the purpose of working a copper mine situate in the parish of Festinice, in the county of Merioneth.

The capital was nominally fixed at £7000, but shares of £1 each, representing £1322, only were subscribed, so that the funds available for testing and properly working the mine were comparatively insignificant, particularly after legal and preliminary expenses had been liquidated. The operations of the company were furthermore contracted in consequence of the absolute refusal of a portion of the shareholders to pay up even the first and second calls, so that the works at the mine were brought to an abrupt standstill for nearly six months, and this, too, during the most favourable period of the year. It is true that the expectations of a section of sanguine shareholders had been raised to an extravagant degree by exaggerated reports as to the positive certainty of the mine instantly yielding an extraordinary quantity of ore; but upon the heels of the sudden disappointment of these expectations, it is equally true that reports as highly exaggerated were circulated deprecisatory of the undertaking; and the company, divided within itself, was not very likely to work with that spirit of unanimity which the successful carrying out of mining operations imperatively calls for and demands.

The formation of a new board, possessing much of the elements of the former one, and the appointment of an efficient manager of the works, gave to the undertaking fresh, but, at the same time, very slight animation, so that after a few months' operations the directors find that the small subscribed capital is entirely absorbed. Being carnest in the desire to carry on the mine, they have resolved to issue preference share, and have deemed it expedient to publish this statement, which is the first issued by the company. The directors do not invite co-operation in carrying on the works by holding out high hopes of

THE ENGLISH AND CONTINENTAL TRACTION ENGINE

COMPANY (LIMITED).

Capital £10,000, with power to increase.
In 1000 shares of £10 each. Fully paid up.

The object of this company is to purchase Messys. Longstaff and Pullan's Patent Traction Engines (a full report of the working and efficacy of which will be found in the Mechanics' Magazine of November the 2d, 1860), for the purpose of working them on contract in this country, as well as on the Continent.

The exclusive right of sale, or of granting the use of them in Spain and Portugal, has been secured to the company, and offers for contracts have already been received, on terms that fully justify the directors in anticipating an annual net profit of not less than 25 per cent, on the outlay.

Propher transport of the proof amplication for the vernaging charge, may be had on small.

25 per cent, on the outlay.

Prospectuses, and forms of application for the remaining shares, may be had on application for the remaining shares, may be had on application to the manager, at the offices of the company, No. 2, Broad-street-buildings, E.E. where every information will be afforded.

L. LINDON, Manager.

THE PATENT ATMOSPHERIC MARINE SALVAGE

Capital £20,000, in 20,000 shares of £1 each. Deposit 2s. per share, and 3s. per share in twenty-one days.

Future calls 5s. per share, at intervals of two months.

A contract having been entered into for the construction of Rainbird's celebrated apparatus for raising sunken vessels, it is requisite that applications for shares be sent in, without delay, to the Union Bank of Manchester, or to the offices, where prospectuses, &c., can be had, and the model seen in operation.

Last year 1811 vessels valued at upwards of £2,000,000 sterling, were wrecked on the British coast. It is estimated on careful analysis that upwards of 100 per cent. dividend will be realised in the first year of operation by this company. No shares will be sail-lotted except to original shareholders after the construction of the apparatus.

40, Brown-street, Manchester.

RED JACKET — Owing to the inclusive of the contract of the AMACKET — Owing to the large careful and the contract of the RED JACKET,—Owing to the inclemency of the weather, the SAILING of this clipped is POSTPONED to the 29th January.

A USTRALIA AND NEW ZEALAND
WHITE STAR EX-ROYAL MAIL CLIPPERS,
SALING FROM
LIVERPOOL to MELBOURNE on the 1st and 20th of every month.
FOR MELBOURNE on the 1st and 20th of every month.
FOR MELBOURNE on the 1st and 20th of every month.
FOR MELBOURNE on the 1st and 20th of every month.
FOR MELBOURNE on the 1st and 20th of every month.
RED JACKET BULLING 2000 ... 5500 ... Jan. 29.
DAVID G. FLEMING HATFIELD ... 1664 ... 5000 ... Feb. 20.
The clippers of this line are the largest, finest, and handsomest in the trade, and are well knewn for their famous passages, and the unswerving punctuality of their salling engagements. Passengers must embark, without fall, on the day previous to advertised date.—For freight or passage apply to the owners, H. T. Wilson and Chambers, 21, Water-street, Liverpool; or to Grindlat and Co., 55, Parliament-street; or SEY-MOUR, PEACOCK, and Co., 116, Fenchurch-street, London.

A LBERT AND MEDICAL LIFE ASSIDDANCE

DASTIER'S PATENT CHAIN
APPARATUS FOR RAISING WATER ECONOMICALLY, ESPECIALLY
APPLICABLE TO ALL KINDS OF MINES, DRAINAGE, WELLS, &c.
J. U. Bastier begs to call the attention of proprietors of mines, engineers, architects
farmers, and the public in general, to his new pump, the cheapest and most efficient ever
introduced to public notice. The principle of this new pump is simple and effective, and
its action is so arranged that accidental breakage is impossible. It occupies less space
than any other kind of pump in use, does not interfere with the working of the shafts
and unites lightness with a degree of durability almost imperishable. By means of this
hydraulic machine water can be raised economically from wells of any depth; it can be
worked either by steam-engine or any other motive power, by quick or slow motion
The following statement presents some of the results obtained by this hydraulic machine
as daily demonstrated by use:—

worked either by steam-engine or the results obtained by this hydraume manning, as daily demonstrated by use:—
1.—It utilises from 90 to 92 per cent. of the motive power.
2.—Its price and expense of installation is 75 per cent, less than the usual pumps employed for mining purposes.
3.—It occupies a very small space.
4.—It raises water from any depth with the same facility and economy.
5.—It raises with the water, and without the slightest injury to the apparatus sand, mud, wood, stone, and every object of a smaller diameter than its tube.
6.—It is easily removed, and requires no cleaning or attention.
To be seen daily at W. P. Warner's, wine and spirit merchant, Welsh Harp, Edgware-road, near Cricklewood. References of the highest character will be given.
J. U. Bastier, sole manufacturer, will CONTRACT to ERECT his PATENT PUMP at HIS OWN EXPENSE, and will GONTRACT to ERECT his PATENT PUMP at HIS OWN EXPENSE, and will GUARANTEE IT FOR ONE YEAR, or will GRANT LICENSES to manufacturers, mining proprietors and others, for the USE of his INVENTION.

offices, 19, Manchester Buildings, Westminster, London, ondon, oct. 10, 1859. Hours, from Ten till Four. J. U. Bastier, C.E.

LABORATORIES

A SSAY OFFICE AND LABORATORIES

DUNNING'S ALLEY, BISHOPSGATE STREET WITHOUT, LONDON.

Conducted by Mitchell and Rickard (late John Mitchell, F.C.S.; Author of

Massad of Practical Assaying, Metallurgical Papers, &c.)

Assays and Analyses of every description performed as usual. Special Instruction!

Assaying and Analysis. Consultations in every branch of Metallurgical and Manufacturing Chemistry. Assistance rendered to intending Patentees, &c.

For amount of fees, apply to the office, as above.

WILSON'S BREECH-LOADING RIFLE,—Mr. THOMAS VILISON'S BREECH-LOADING RIFLE.—Mr. THOMAS
WILSON begs to CALL ATTENTION to his new BREECH-LOADING
RIFLES and CARBINES, which after repeated trial are pronounced by the highest authorities to be the most simple, safe, and efficient breech-loading weapons ever introduced. All enquiries and other communications to be addressed to Messrs. Rabone
Brothers, and Co., 47, Broad-street, Birmingham, who have the management of the patent,
and from whom every information as to cost and other details can be obtained.

The patent rifles may be obtained through the London and Birmingham gun trades,
and all respectable gun makers in the kingdom, as well as through Messrs. Rabone
Brothers and Co., 47, Broad-street, Birmingham.

N.B.—All guns manufactured under this patent are viewed by the patentee, index

made correctly are marked T. W. under a small crown on the Nock's form of the barrel.

PRITISH AND FOREIGN INVESTMENT.—Mr. THOS.
SPARGO, of Nos. 224 and 225, Gresham House, old Broad-street, London, E.C.
RANSAUTS every description of BUSINESS in the PURCHASE and SALE of
BHARES IN BANKS, CANALS, EAILWAYS, BRIDGES, INSURANCES, and all

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SPARGO has FOR SALE SHARES in ENGLISH MINES paying from 20 to 25 per upon the present price in bi-monthly and quarterly Dividends, as also a number of s in good Progressive Mines, some of which he specially recommends to the

Mr. SPARGO has FOR SAME SEARCH AND CO.,

shares in good Progressive Mines, some of which he specially recommends to the public as sound investments.

Mr. SPARGO GIVES ADVICE and ACCURATE INFORMATION as to position and prospects of all mining undertakings upon application, either personally or by letter, and prospects of all mining undertakings upon application, either personally or by letter, and than spublished the following, from which those unacquainted with mining can enlighten the special states of the second states of the

INSPECTORS and VALUERS of MINES, &c., MELROURNE, VICTORIA, OFFER THEIR SERVICES to SELECT and INVEST CAPITAL IN MINING PROPERTIES, for which they charge 3½ per cent.; and they also Collect and TRANS-MIT the DIVIDENDS, charging £5 per cent, on their amount. Messrs. Leicsfer and Co. earnestly call the attention of capitalists to the many opportunities they possess of investing, to pay from £50 to £150 per cent, per annum. Sums under £50 will be charged extra. All remittances must be made through our agent, Mr. Reichard Mining-Journal edites, 26, Fleet-street, London; or direct through our bankers, the Union Bank of Australia.

University College, London,

EOLOGY—UNIVERSITY COLLEGE, LONDON.—
PROF. J. MORRIS, F.G.S., will COMMENCE a COURSE of LECTURES on GEOLOGY, on Tuesday, February 5, at a Quarter-past Four P.M. To be continued every Tuesday and Thursday. Fee, £2.
An EXTRA COURSE on PRACTICAL MINERALOGY and GEOLOGY, or Tuesdays and Thursdays, at A Quarter-past Five P.M. Fee, £2.
EVENING LECTURES every Thursday, at Seven P.M., commencing February 1th.
Fee, £1 is.; for schoolmasters, 10s. 64.
RICHARD FOTTER, M.A., Dean of the Faculty of Arts.
CHARLES C. ATKINSON, Secretary to the Council.

GRANGES OF LOGY WILL COMMENCE a COURSE of LECTURES on GEOLOGY, on PRIDAY morning, January 25th, at Nine o'clock. They will be continued on each succeeding Wednesday and Friday, at the same hour. Fee, £2 12s of.

R. W. JELF, D.D., Principal.

The FERRING to our Circular, as also that of Mr. Fothergill, of by March last, announcing that we had succeeded to the business so long carried on by Mr. Fothergill, in Manchester, as consulting engineer, &c., relinquished by him consequent on having accepted a Government appointment in London, we have now much pleasure in stating that Mr. Fothergill having resigned the appointment referred to a PARTNERSHIP has been arranged between us, and the business will in future be carried on with increased facilities in London and Manchester, under the style or firm of FOTHERGILL, WRIGLEY, AND SMITH.

LONDON OFFICES,—27, LAURENCE POUNTNEY LANE, CANNON STREET, MANCHESTER OFFICES,—17, QUEEN'S CHAMBERS, 5, MARKET STREET,

BELL BROTHERS beg to intimate that, having become SOLE LICENSEES in the United Kingdom of Phor. DEVILLE'S METHOD of PRODUCING PURE ALUMINIUM, they are now in a POSITION to SUPPLY, from their works here, both this metal and its compound with copper, known under the name of ALUMINIUM BRONZE.—Newcastle-on-Tyne, September, 1860.

NICKEL AND COBALT REFINING, AND GERMAN SILVER WORKS, 16, OOZELL STREET NORTH

STEPHEN BARKER begs to inform the Trade that he has the following rshie:--REFINED METALLIC NICKEL. | OXIDE OF COBALT. [WIRE, &c. REFINED METALLIC BISMUTH. | GERMAN SILVER—IN INGOTS, SHEET

NICKEL AND COBALT ORES PURCHASED.

NICKEL AND COBALT ORES FURCHASED.

TO IRONMASTERS.—The ADVERTISER, who RETIRED from the MANAGEMENT of one of the leading IRONWORKS in this country to engage in other pursuits, is OPEN to an ENGAGEMENT, at home or abroad. He is a thoroughly practical iron maker, has worked his way up through all the leading branches of the trade, and now, in the prime of life, possesses that valuable experience which can only be obtained from the management of large concerns. He erected, and for many years conducted, a work having 16 blast furnaces, with rail, plate, and bar mills, producing 2000 tons finished iron weekly. From the variety of ironstones and coal used, he has obtained a thorough knowledge of that branch of his business, and in the mills his attention has been directed to producing the largest and highest class of boiler, ship, and armour plates. Unexceptionable references will be laid before any party requiring his services. No objection to be engaged as a boiler plate or rail inspector.—Address, "F. G.," Mining Journal office, 26, Fleet-street, London, E.C.

TO COLLIERY OWNERS, MINE COMPANIES, &c. 3MITH AND OLIVER, MECHANICAL and MINING ENGINEERS, SWANSEA, UNDERTAKE tO SINK SHAFTS, ERECT MACHINERY, PIT FRAMING and to COMPLETE EVERY KIND of COLLIERY WORK, either at home or abroad PLANS, SPECIFICATIONS, and ESTIMATES PREPARED.

TO CAPITALISTS AND ENGINEERS.—An INVENTOR and PATENTEE of a VALUABLE IMPROVEMENT, APPLICABLE to ANY KIND of STEAM ENGINE, whereby an IMMENSE SAVING of MATERIAL, EXPENSE in CONSTRUCTION, FUEL, and much less room, is effected, WISHES to DISPOSE of a SHARE or WHOLE of the PATENT RIGHT.—Address, "Inventor, care of Mr. Jas. Lane, 44, Threadneedle-street, London, E.C.

WANTED, ONE THOUSAND BOXES of TIN and TENNE
PLATES, and an AGENCY in SCOTLAND for a FIRST-CLASS WEISH
OF STAFFORDSHIRE MANUFACTURER, by a party in a first-rate position to do the
trade.—Apply, with particulars, to "Tin-Plates," Mining Journal office, 26, Fleet-street,
London, E.C.

OANS ON DEBENTURE BONDS.—The Directors of the RECEIVE TENDERS for LOANS on DEBENTURE GOMPANY are PREPARED to RECEIVE TENDERS for LOANS on DEBENTURE BONDS, to pay off those falling due. Proposals, stating amount, rate c, interest, and period for which offered, to be addressed to the secretary of the company, at their offices, Bridgman-place, Walsall. Walsall, November 6, 1866.

COPIAPO EXTENSION RAILWAY COMPANY (PABELLON OPIAPO EXTENSION RAILWAY COMPANY (PABELLON AND CHARNACILLO RAILWAY COMPANY), Incorporated under the law of Chile.—Notice is hereby given, that a GENERAL MEETING of the Copiapo Extension Railway Company (Pabellon and Chanarellio Railway Company) will be HELD at the offices of the company, 2, New Broad-street, on TUESDAY, the 5th day of February next, at Two o'clock precisely, pursuant to the statutes of the company, for the purpose of receiving and considering the directora' report, and the arrangements to be be made for payment for locomotive engines supplied, and works to be executed on the line, and for the general business and affairs of the company.

And notice is hereby further given, that all shares in the company in respect of which calls shall be then unpaid will be declared at the meeting to be forfeited to the company, together with all previous payments made thereon.

January 11, 1861. By order of the Board, EDWARD J. COLE, See. (

CADIAN CHARCOAL IRON COMPANY (LIMITED) Notice is hereby given, that an EXTRAGRDINARY GENERAL MEETING of
the shareholders in the Acadian Charcoal Iron Company (Limited) will be HELD at
Rider's Hotel, Salisbury-square, Fleet-street, in the City of London, on TUESDAY, the
29th day of January inst., at One o'clock, to take into consideration the pending litization between the company and Messrs. Hunter and Chowne, trustees of the Commercial
Bank of London, and other parties, and to pass specific resolutions thereon.

By order of the Board of Directors,

GEORGE WILKINSON, Sec.

CONSOLIDATED COPPER MINES OF COBRE.—Notice is hereby given, that a HALF-YEARLY GENERAL MEETING of the proprietors of this association will be HELD, in conformity with the Deed of Settlement, at the offices of the company, Gresham House, Old Broad-street, on Monday, the 28th day of January inst., at One o'clock precisely.

On that day two directors (Charles William Grenfell, Esq., and Robert Passenger, Esq.) and one auditor (Pascoe Charles Glyn, Esq.) will go out of office by rotation, agreeably to the Deed of Settlement, but are immediately eligible, and are candidates for re-election.

ably to the Doed of Settlement Pre-clection.

It is necessary that persons intending to offer themselves as candidates for the direction or auditorship should leave notice of such their intention at the offices of the company at least 14 days before the day of election, and exclusive thereof.

ALTER SHARE? | Directors of the GEO. WHITMOTE | Company. (Company. (Com

CLARENDON CONSOLIDATED MINING COMPANY

OF JAMAICA (LIMITED).—Notice is hereby given, that the directors have this day made a CALL of TWO SHILLINGS AND SIXPENCE FER SHARE on the shares of the company, PAYABLE on or before the 10th day of April next, at the bankers of the company, Messrs. Heywood, Kennards, and Co., No. 4, Lombard-street, London, and the shareholders are hereby required to pay the same accordingly.

The transfer books will be closed from 22d January to 1st February, both days inclusive.

By order, JOHN H. KOCH, Sept 187, Gresham-house, Old Broad-street, London, January 22, 1861

MARIQUITA AND NEW GRANADA MINING COMPANY.

The HALF-YEARLY ORDINARY GENERAL MEETING of this compwill be HELD at the London Tavern, Bishopsgate-street, in the City of London THURSDAY, the 31st day of January next, at Two o'clock.

L. R. JONES, Se 2, New Bank-buildings, E.C., January 22, 1861.

2, New Bank-buildings, E.C., January 22, 1861.

DUN MOUNTAIN COPPER MINING COMPANY (LIMITED).—Notice is bereby given, that the HALF-YEARLY ORDINARY GENERAL MEETING of shareholders of the Dun Mountain Copper Mining Company (Limited) will be HELD at the London Tawern, on WEDNESDAY, the 30th January, at one o'clock precisely, for the transaction of the ordinary business of the company, and the re-election of auditors.

At the said meeting the following directors will retire by rotation—viz., Alexander Morrison, Esq., 10, Austinfriars; Joseph Stayner, Esq., 110, Fenchurch-street; but, being eligible for re-elected accordingly. Notice is hereby also given, that an EXTRAORDINARY GENERAL MEETING of the shareholders will be held at the same place, immediately after the close of the ordinary general meeting, for the purpose of obtaining the sanction of the shareholders to the issue, below par, of all or some of the reserved shares.

By order of the Board, FREDC. SAUNDERS, Seca. 6. Great Winchester-street, London, E.C., January 19, 1861.

CUNNORREE MINING COMPANY (LIMITED).—Notice is hereby given, that a GENERAL MEETING of this company will be HELD at their offices, 46, Dame-street, Dublin, on WEDNESDAY, 6th February, 1861, at One oflock F.M., for the purpose of submitting the report of the directors, and statement of accounts up to the 30th November, 1860.

N.B.—Th ooks of the company will be closed from the 31st inst. to the February, both inclusive. 46, Dame-street, Dublin, January 22, 1861.

WHEAL ZION MINE COMPANY.—Notice is hereby given, that
ANY PERSON HAVING a CLAIM against this company MUST SEND
the PARTICULARS THEREOF to my offices, 5, Adam's-court, Old Broad-street, London, on or before Saturday, the 9th day of February next, after which day the assets of
the company will be divided.

By order of the Committee,
W. J. DUNSFORD, Sec.

WEST POLMEAR.—At a MEETING of the committee of this mine, held at Dunn's Hotel, St. Austell, on Wednesday, the 23d inst.,
P. CLYMO, Esq., in the chair,
It was resolved,—That a general meeting of the adventurers be held at St. Austell, on Monday, the 25th day of February next, at Three o'clock in the atternoon, for making the necessary arrangements for working of the mine, and to close the list of shareholders.
Any information may be obtained in the meantime of Capt. R. WILLIAMS, Charlestown United Mines, St. Austell, Coruwall; Mr. Ws. Charles, 27, Austinfrairs, London; or of the purser, H. W. Higman, St. Austell,—Dated January 23, 1861.

In the Court of the Vice-Warden of the Stannaries Stannaries of Cornwall.

PURSUANT to an Order, or Decree, made in the Cause of BISHOP v. ROSKILLY, the CREDITORS in respect of HAMMETT CONSOLS MINE, in the parish of St. Noot, within the said Stannaries, are, on or before the lat day of February next, to COME IN and PROVE THEIR DEBTS before the Registrar of the said Court, at his office in Truro, or in default thereof they will be peremptorily excluded the benefit of the said decree.

Dated Registrar's Office, Truro, January 16, 1861.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE EAST TREFUSIS MINE.

IN RE EAST TREFUSIS MINE.

Richards v. Hancock and Others, dated the 4th day of December last, BY PUBLIC AUCTION, at the Registrar's Office, Truro, on Wednesday, the 30th day of January inst.,

at Twelve o'clock at noon precisely—
5 (1000ths) SHARES of the defendant Robert Cameron,
Of and in the said MINE.

r and in the said MINE.

HENRY SEWELL STOKES, Plaintiff's Solicitor, Truro.

Dated Registrar's Office, Truro, January 16, 1861.

MOSTYYN FOUNDRY, NEAR HOLYWELL, FLINTSHIRE.
VERY IMPORTANT TO ENGINEERS, MACHINE MAKERS, MILLWRIGHTS
CONTRACTORS, MINERS, SMITHS, BROKERS, &c.

VERY IMPORTANT TO ENGINEERS, MACHINE MAKERS, MILLWRIGHTS CONTRACTORS, MINERS, SMITHS, BROKERS, &c.

MR. HOWELL respectfully announces that he is favoured with instructions from the proprietor (who is retiring from the business) to SELL, BY AUCTION, on the 4th day of February next, and the three following days, until the whole is disposed of, the whole of the VALUABLE STEAM ENGINES, TOOLS, MACHINERRY, PATTERNS, UTENSILS, and EFFECTS, consisting of a HIGH PRESSURE BEAM STEAM ENGINES, with cylinder 20 in. diameter, working a 5 ft. stroke, with TWO CYLINDRICAL STEAM BOILERS, 5 ft. diameter, 33 ft. and 35 ft. long; a 22 in. cylinder CONDENSING BEAM STEAM ENGINES, working a 6 ft. stroke; a 16 in. cylinder GNDENSING BEAM STEAM ENGINE, working a 6 ft. stroke; a 16 in. cylinder HIGH PRESSURE BEAM STEAM ENGINE; TWO 7 in. cylinder HIGH PRESSURE BEAM STEAM ENGINE; TWO 7 in. cylinder HIGH PRESSURE BEAM STEAM ENGINE; TWO 7 in. cylinder HIGH PRESSURE BEAM STEAM ENGINE; TWO 7 in. cylinder HIGH PRESSURE BEAM STEAM ENGINE; TWO 7 in. cylinder HIGH PRESSURE BEAM STEAM ENGINE; TWO 7 in. cylinder HIGH PRESSURE BEAM STEAM ENGINE; TWO 7 in. cylinder HIGH PRESSURE BEAM STEAM ENGINES; one strong verical boring machine, two planing machines, siz lathes, of various descriptions; screwing machine, two planing machines, siz lathes, of various descriptions; bellows, slock troughs, large foundry crane, beam silings, chains, dishibitions, anvils, bellows, slock troughs, large foundry crane, beam silings, chains, iron stove doors, stove carriages, loam mill, cupolas, casting ladies, moulding boxes, holler makers' punching and shearing machine; weighing machine, swage blocks, moulds and blocks for manufacturing raliway wheels; weighing machine, swage blocks, moulds and blocks for manufacturing raliway wheels; weighing machine, swage blocks, moulds and blocks for manufacturing raliway wheels; register machine, swage blocks, moulds and blocks for manufacturing raliway wheels; weighing machine, sales, weights, chains, blocks, and falls, crab winche

DEVON BURRA BURRA.

MINE SETT AND VALUABLE MACHINERY FOR SALE.—

TO BE SOLD, BY PRIVATE CONTRACT, the MINING SETT known as
DEVON BURRA BURRA, on Longaford estate, adjoining Whitchurch Down, near
Tavistock, in the county of Devon, and bordering on the granite range of Dartmoor, together with an excellent and most powerful STEAM ENGINE, by Messrs, Gill and
Rundle, 60 in. cylinder, 10 ft. stroke, in perfect working order, which cost the present
proprietors £2000, fixed in substantial engine and boiler house, in good repair, with two
boilers attached; several fathoms of 16 and 12 in. pumps, with over 150 fms. of flat-rods
and pulleys, balance and angle bobs, capstan and capstan rope, shears, grinder, and grinder
house, sheads, and ore floors; 12 head of stamps, by Messrs. Nichols, williams, and Co.;
a most powerful WATER-WHEEL (cost £450), and a smaller ditto (cost £120); counthouse, with fittings and fixtures; smithly and smither 'tools, scrap iron, timber, and sundries.

The sett is discontinued mainly from the retirement of two of the principal holders,
without whose assistance, or that of other capitalists, the present adventurer are unable
to prosecute the operations further. Many, however, would be willing to continue with
any purchaser of known respectability, so great is their expectation that some good result will follow.

suit will follow.

In 1855-6, a lode to the east of the great cross-course was very favourably spoken of by Captain Williams, of Wheal Priendship; this lode has never yet been explored, excepting by a pit a fathom or two in depth, where the gossan was mixed with ore, and giving promises of richness in depth. This the adventurers were commencing to drive after from the 40 fm. level, when an accident to the clack, involving the loss of the pitwork, stopped the further prosecution in that direction.

There is also a lode in the western ground, from which yellow copper ore was sold in 1856 producing £10 3s. per ton, but this has not been explored below the 40.

There is still lead ore found in the ends of the western workings in the 20, 10 tons having been sold from thence during the last month.

Applications may be made either to the Messrs. SKINNER, merchants, Tavistock, Devon; or to Mr. Erros, 4, Lothbury, London.

COAL AND IRONSTONE MINES.—TO BE LET, on royalty, upwards of SIXTY ACRES, with TWO ENGINES, &c. There is a canal and public wharf within a short distance, and there is every probability of a railway being made which will afford communications with London and Birmingham. To an enterprising and responsible party the proprietor would afford every liberal accommodation.—Apply to Mossrs. RAWLINS and ROWLEY, solicitors, Birmingham.

Apply to Messrs. RAWLINS and HOWLEY, Solicitors, Birmingnam.

O A L MINES IN NORTH WALES

ON SALE BY PRIVATE TREATY.

These mines are under the BHISTREE and CARREGLYWDD ESTATES, situate in the township of Buckley, in the county of Flint, near the city of Chester, and on the hester and Moid Railway, close to Padeswood station.

By a series of borings the three seams, known as the Hollin, the Brassy, and the Main Joai, have been proved to exist within a moderate depth from the surface, and to exidend under at least 140 statute acres.

These three mines alone, taking their aggregate thickness at 19 feet, will produce 1277,264 tons of coal, which, at an output of 166,000 tons per annum, will last for twenty-sight years.

These tarres in the second of cola, which, at an output of 100,000 tons per annum, will last for twentyeight years.

No notice is at present taken of either the underlying seams of coal and Cannel peculiar to, and so well known in, the counties of Fiint and Denbigh, or of the prolific seams
of ironstone which exist in this locality.

The mines under the Bristree estate are held by the present owner under lease for a
term of 25 years, from the 25th December, 1857, at a stipulated minimum rent of £100
per annum, merging into a royally of 1-8th of the selling price of the coal at the pit's
mouth, and 6d, per ton on the ironstone.

The mines under the Carregly wide state are held in like manner for a term of 21 years,
from the 1st November, 1859, subject to a fixed rent of £50 per annum, or a royalty of
1-9th of the selling price of the coal, and 6d, per ton on the ironstone.

The mines in question can be won and worked with ease by an outlay of £14,000, or
with a working capital, including the outlay, of £17,000; while the facilities of conveying the produce to Chester and the shipping places on the River Dee, as well as to
Birkenhead and the River Mersey, are equal, if not superior, to any of the existing collieries of the district.

The demand for this coal is reported to be only limited by the supply, and there can
be no doubt as to the easy establishment of a large and profitable colliery upon these
estates.

be no doubt as to the easy establishment of a large and profitable colliery upon these estates.

From the reports of mining engineers resident in the district, the estimated cost of getting the coals and putting them on the pit bank is 5s. 3d. per ton, while at present it avegating the solid profits and the solid profits and the solid profits and the solid profits and the solid profits an annual profit of upwards of £6000 per domining may be calculated upon, exclusive of the sum set apart for the recovery of capital. Further information may be obtained on application to Thomas Baker May, Esq., Hawarden, near Chester; Mr. John G. Blackerener, C. E., Oldham; Mr. Jacon Higson, Newgastle-on-Tyne; Mr. John Taylon, Mining Engineer, Mr. T. E. Forster, Mining Engineer, Nam; Mr. Henner Beckert, Mining Engineer, When Cross-street, Manchester; Mr. T. E. Forster, Mining Engineer, Nam; Mr. Henner Beckert, Mining Engineer, Overstampton; Messrs. Syzad and Trues, solicitors, Romsey, Hampshire; or George Edward Pailinteek, Esq., Girdler's Hall, Basinghall-street, London.

EXTENSIVE COAL FIELD IN SOUTH WALES TO BE LET, consisting of 600 to 1000 acres, close to docks and railways, and well adapted for copper smetting and other trade purposes, and for shipment.—Apply, by letter only, to C. B. Lane, Esq., C.E., 16, Porchester-termec North, London.

WORKINGTON COLLIERY.—TO BE LET, on royalty, operation, called the VIRGIN BAND. The coal is of superior quality, and the colliery is favourably situated at Workington, between Maryport and Whitehaven; and the estate having been thoroughly explored and proved by the working of the upper seams of coal, the faults or dykes are depicted upon the plans, which will materially assist the lessee in working the Virgin Band seam. The colliery has easy access to Workington Harbour and the adjoining railway. The plant may be taken at a valuation. Further particulars may be had upon application to Mr. PENRICE, at the colliery or Messrs. Woodhouse and Jeppecock, civil and mining engineers, Derby; and Frederick.

NCRUSTATION OF STEAM BOILERS.—EASTON'S

INCRUSTATION OF STEAM BOILERS.—EASTON'S PATENT BOILER FLUID EFFECTUALLY REMOVES and PREVENTS INCRUSTATION in STEAM BOILERS, WITHOUT INJURY to the METAL, with GREAT SAYING in FUEL, and with LESS LLABILITY to ACCIDENT from EXPLOSION. It is used by Her Majesty's Steam Storeships, Woolwish Arsenal, Honourable Corporation of Trinity House, Tower of London, by the principal Steam Packet Companies of London, Liverpool, Southamptor, Hull, &c., and by engineers and manufacturers throughout the country. Testimonials from eminent engineers, boiler makers, and manufacturers throughout the country. Testimonials from eminent engineers, boiler makers, and manufacturers and patentees, Nos. 37, 38, and 39, Wapping-wall, London, E.
AGENTS:—Liverpool, M. J. McInnes; Hull, Messrs. A. H. Fleming and Co.; Southampton, Mr. J. Clark; Birmingham, Mr. Adam Dixon; Beifast, Mr. W. T. Matier, C.E.; Nottingham, Mr. G. D. Hughes; Glasgow, Mr. W. Mutrle.—Foreign; Rio de Janeiro, Messrs. Miers Brothers and Maylor; Odessa and South Russia, Mr. W. Baxter; Hamburs, M. August Möller.

Mr. Easton has rendered steam navigation a decided service. If his fluid only effects a part of what is said in his testimonials, then it is worth a trial by every steamship owner in the world.—Mitchelf's Steam Shipping Journal, Doc. 28, 1860.

The most effectual, economical, and simple preventive of incrustation known.—Commercial Daily List.

BEDFORD IRONWORKS, TAVISTOCK.

NICHOLLS, WILLIAMS, AND CO. have the following FOR SALE, and generally a GOOD STOCK of SECOND-HAND MINING MATE-BIALS:—Ironwork for a water-wheel, 40 ft. diameter, 2½ ft. breast; a 10 horse power TABLE ENGINE, in excellent condition. For particulars and viewing the above, apply at the works.

Nicholis, Williams, and Co. also beg to announce that they MANUFACTURE STEAM ENGINES of every description on the newest principle. Castings and wrought-iron work made at the shortest notice. Machinery sent to all parts of the world, and competent engineers to erect the same. Steam boilers and chains made, and warranged of the best description.

EBONITE!—TELEGRAPH INSULATORS made of EBONITE.

EBONITE in SHEET, TUBES, and RODS, or manufactured into various articles of utility and ornament, being calculated to supersede metal, hard woods, and ivery at present in use.

at present in use.

INDIA RUBBER.—INDIA RUBBER STEAM PACKING in ROPE, SHEET, RINGS, &c., intended for railway and machinery appliances, unvulcanised and vulcanised.

S. W. SILVER AND CO., 3 and 4, BISHOPSGATE WITHIN, E.C. (Opposite the London Tavern).

WORKS—SILVERTOWN, ESSEX, opposite Her Majesty's Dockyards, Woolwich.

MPORTANT TO TELEGRAPH COMPANIES AND OTHERS.—HALL AND WELLS, patentees, are PREPARED to INSULATE CONDUCTORS of ALL SIZES with PURE INDIA RUBBER for submarine cables, or any other purpose where insulation is required for telegraphic communication. ALL or any other purpose where insulation is required for telegraphic communication. CORES are WARRANTED to STAND the USUAL TEST for INSULATION, &c. climens and prices of cables and cores can be had at their works, Steam Mills, Manstreet, Borough-road, Southwark, S.E.

HEVERSHAM GRAMMAR SCHOOL, NEAR
MILNTHORPE, WESTMORELAND.
HEAD MASTER,—Rev. J. H. SHARPLES, M.A., formerly Scholar of St. John's
College, Cambridge.
Boarders are received and prepared either for the Universities or Commerce, at £30,
£35, or £40 per annum, according to age. Seven Exhibitions, of different values, from about £50 to £100 a year, are connected with the school, and are open to all pupils.

Q U A R T E R L Y R E (No. CCXVII.) is PUBLISHED THIS DAY, REVIEW

I. CANADA. II. WELSH LITERATURE.

Just published, price 10s. 6d., second edition, HANDBOOK OF RAILWAY LAW

By ARTHUR MOORE.

Second edition, bringing down the collection of statutes, &c., to the year 1860, inclusive

Likely to be of especial service to railway offices.—Times, City Article.

W. H. Smith and Son, London and Dublin.

Just published, price 2s. 6d.,

CENERAL RAILWAY ACTS of 1859 and 1860, and the TRAMWAYS ACT FOR IRELAND, with Preface, Notes, and Index, &c., being a Supplement to the first edition of the "Handbook of Railway Law," which contains also the Acts Incorporated with the Tramway Act.

By ARTHUR MOORE.

W. H. Smith and Son, London and Dublin; Bradshaw and Blacklock, Manchester.

NEW GEOLOGICAL WORK.

A geological work of some interest to the iron trade, treating of the ironstone of the Cleveland district, North Yorkshire, is about to be published by Mr. A. Reld, of New-castle-upon-Tyne, from the pen of a gentleman every way qualified for the task, which promises, we understand, to add much additional information of a valuable character to our geological knowledge respecting that interesting iocality, which has been the scene of the author's labours for many years, and, therefore, all interested in the subject may anticipate its perusal with pleasure. Those who have perused the Ms., and who are well versed in the iron trade of the district, speak highly of the work.—Mining Journal.

Now ready, price 21s. (21s. 8d. by post), royal octavo, bound in cloth, lettered.

cloth, lettered,

CLEVELAND IRONSTONE.—A TREATISE on the

IRONSTONE OF THE CLEVELAND DISTRICT, illustrated by a large Geological Map of part of the North Riding of Yorkshire, with coloured sections representing the whole of the consecutive strata between the lower lisa and colitic limestone; and also delineating the position of the ironstone deposit along the line of the North Yorkshire Railway, between the port of Whitby on the east and Stokesley on the west, of the iron field; together with remarks on ironstone mining, elucidated by plans, &c.

Newcastle-on-Tyne: Printed and published by Andrew Reid, 40, Pilgrim-street (who will receive subscribers names).

London: J. Weale, 59, High Holborn; and the Mining Journal office, 26, Fleet-street.

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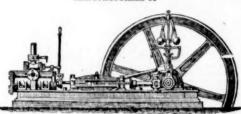
An illustrated description of this cage appeared in the Mining Journal of the 29th December. The patentee would impress on the working miners that it depends upon themselves alone whether they are to have the security of safety cages or not. Employers are naturally unwilling to incur this responsibility, but will gladly accede to the expressed wishes of their workmen in a matter so materially affecting their safety. Let the latter, herefore, with the concurrence of their employers, call upon the different patentees to exhibit their safety cages before them, make choice of the one they have confidence in, and thus do away with a fruitful source of danger to the miner.

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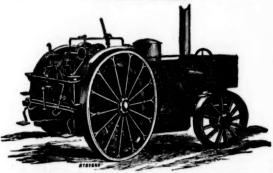
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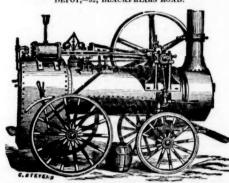
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PROGRESSIVE MINES.

THE MINING SHARE LIST.

tis Weich, progress of, and the results, 646, 663, 635, 731, 779, 778, 818, 848; the Liandevery and Liandrindod, 648; the Albertie and Grant Western, projection of, 670; the Minister, Jackgrant and Taf Vale Junction, 1981, 690, 690, 690, 790; the Minister, Jackgrant and Taf Vale Junction, 1982, 690, 690, 690, 790; the Minister, Jackgrant and Cardigan Junction, 1982, 690, 690, 690, 690, 792, 592, 505
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FOREIGN MINES WITH DIVIDENDS IN ABEYANCE.

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THE ANNUAL REVIEW OF MINING PROGRESS. BY J. Y. WATSON, F.G.S.

[Continued from the Mining Journal of Jan. 8.]

PROGRESSIVE MINES.

ALFRED CONSOLS (tin and copper) has sold 1738 tons 17 cwts, of ore for 91281. 18s. 10d., and tinstuff for 71. 8s. 2d., but has not paid any dividend. I stated in my last Review that the mine had paid upwards of 100,0001. In dividends, but it was doubtful whether any would be paid in 1860. The mine is now working at a considerable loss, but there are one or two points to come off which may improve its position.

ALLT-Y-CRID.—This little mine has got on well, and owing to the great facilities for working it can be carried on cheapiy. In the past year 59 tons of lead ore have been sold for 8694, 3s. 8d., against only 19 tons for 2744. 18s. 6d. in 1859.

BOSCASWELL MINES have sold 74 tons 18 cwts. 3 qrs. 26 lbs. of tin for 5763. 7s. 6d. During the past year these mines have been drained to the 110 below adit (which is 30 fms. deep), making 140 fms. from surface. The various shafts and levels have been also cleared and repaired. The drainage of these mines towards the bottom of the engine-shaft is now steadily progressing. The castern portion, which is 180 fms. deep, of the settic is also now being secured and cleared, and it is anticipated that shortly a considerable addition to the returns of tin will be made. The 20, 40, 80, and 90 fm. levels, east and west of York's silde shaft, and east and west of Treveke's, have been most productive for tin during the past six months, and still continue to yield fair returns. The various operations connected with the extensive working of these mines are progressing most favourably. The machinery considerable ones for the castern of the engine of the section of the engine of serious, case and west of York's slide shaft, and east and west of Treweeke's, have now productive for tin during the past six months, and still continue to yield fair and the strong spersions connected with the extensive working of these minogressing most favourably. The machinery consists of one 96-in. cylinder pumpging, 8 feet stroke; one 34-in. cylinder stamping-engine, working 36 heads; one cylinder winding-engine—double acting.

are progressing most favourably. The machinery consists of one 96-in. cylinder pumping-engine, 8 feet stroke; one 34-in. cylinder stamping-engine, working 36 heads; one 28-in. cylinder winding-engine-mobile acting.

BOTTLE HILL has sold tin ore to the value of 27671. 3s., copper 2571., and has prospects of becoming a dividend mine in 1861. In February last the present company was formed, and the mine introduced to the public by the writer. The reports presented to the last meeting (see Mining Journal, Dec. 15) show the present position and fature prospects of the mine, and the following is the report of the committee:—In presenting their first report to the shareholders, the committee desire to call special attention to the fact that, prior to the formation of the present company, Bottle Hill was worked as a pivate mine, on tribute, at a profit of about 5001. a year. In February last, half the mine was purchased of Mr. Croker for 25001, out of which sum 10001, were placed by that gentleman as a capital for exploring or tutwork operations, and it was insteaded, at the same time, to divide the profits, or the tin raised on tribute. During the the first quarter, ending in April, the profits from tribute amounted to about 3001.; but, after mature con-deration, it was though best not to declare any dividend, but to extend, as much as possible, exploring on the various lodes, in the full expectation of making discoveries that would enable far larger profits to be made hereafter. The committee, therefore, have great pleasure in calling attention to the report of Capt. Eddy, the manager, which, in elaborate detail, gives the quantity of work done, and shows the great extent of ore ground that bas, by the means adopted, been laid open for the permanent benefit of the shareholders. The tin ores sold, and credited in the accounts to be presented to the meeting, have realised 24541, 18s. 5d. The copper over relied, upon which the costs have been paid, are 110 tons. In a few days, 5% tons of tin, raised on tribute, and wort

BREA CONSOLIDATED MINES (St. Ives) have sold 7 tons 17 cwts. 1 qr. 7 lbs. of tin for 649l. 9s. The mine is in the St. Ives district, and progressing in a satisfactory manner, and likely in a short time, it is said, to pay costs.

BROOKWOOD is near Wheal Emma, on the east, and nearly drained by that mine; but in case of need there is a 40-ft. water-wheel erected for pumping. The present depth of the shart is 42 ms. under adit, which has been sank since April last. At the 17 under adit the lode is worth 1 ton of ore per fathom; at the 39 it is worth 2½ tons per fathom; and at the 42, driving to cut the lode, it is expected to be as good as at the 30. The lodes in Emma are said to underlie into this sett, which is 600 fms. on the course of the lodes, and are intersected by three cross-courses.

BRYN GWIGG has sold this year lead ore for 1748l. 2s. 6d., and made calls amounting to 2000l. The last sale left a profit. The mine is a good speculation.

BRYNTAIL has sold 36 tons of lead ore for 369l. 3s. 11d., and made calls of 12s. per share. Within the last month or two the prospects of this mine have very much improved, and it ought to take a good postilon in 1861. The latest report states,—"We have 26 tons of ore broken, a great portion of which is dressed, and the remainder in an undreased state. The dressing, as well as the operations generally, is progressing satisfactorily."

BRILERAND BRASEN — The avening shaft in down 9.7 (stakenes), it is

in an undressed state. The disciple, as a state of the st erages from 4 to 5 ft. whose components good, and, from the strength of the lode, there experience of the position of the mine is good, and, from the strength of the lode, there extrong grounds for expecting good results.

CALVADNACK has sold 112 tons of tin for 8005?. 4s. 7d., and made calls the great disappointments of the year

of 41.5s, per share. This mine has been one of the great disappointments of the year. The returns of tin, however, are now increasing, and the agents hope in the coming year to meet the current costs of the mine. The chief point to come off is the cross-cut north at the 40. The lode that this cross-cut is about to intersect is considered by old miners

to meet the current costs of the mine. The chief point to come off is the cross-cut north at the 40. The lode that this cross-cut is about to intersect is considered by old miners the best in the district.

CAMBORNE CONSOLS has sold copper ore to the amount of 6464.17s. 5d., and made calls of 5684. 10s. In the 50 fm. level, driving east on the caunter, the lode is 1½ ft. wide, producing 1½ ton of ore per fathorn. No important discovery has been made sufficient to warrant a more energetic working.

CAMBORNE VEAN has sold 315 tons of copper ore for 1614L, and tin ore for 601L. Calls made, 1L 6s. 3d., per share. The new shaft is now holed, and levels will be driven east and west, and pushed on with all possible speed. A further outlay will be required for steam-stamps; and when this is done we hope to see the mine take a position in the dividend class.

CARADON CONSOLS.—Thomasine's shaft has been sunk to the 54; at that depth cross-cuts are being extended north and south as rapidly as possible, to interest all the productive lodes of the adjoining mine—West Caradon. Several lodes have already been cut, but scarcely anything done on them, with the exception of the main lode, which has been opened on a few fathoms cast and west. However, the cross-cut north is now within about 10 fms. of the Menadue lode, which in West Caradon is very productive in the shallow levels; and, should it prove equally as good in this mine at about the same depth, the shares are likely to have a great rise. The cross-cut south is also being pushed forward on the same cross-course, and the ground is easy and congenial for mineral. Two other of the productive lodes of West Caradon—Clymo's lode and Allen's main lode, will be intersected in about three or four months, and it is expected that Caradon Consols will become one of the stars of this celebrated district.

CARDIGAN CONSOLS.—The operations here have been carried on with spirit, the Bog shaft being now down to the 33d being months and it is expected that Caradon Consols who shall be in

ontlay, and under careful local management it is expected to do well.

CasreLL.—During the year this company, which from the nature of the
Limited Liability Act, was enabled to raise more capital, has been dissolved and wound
n. The mines, which have always been considered as among the most promising in
Cardiganshire, will soon commence working again, under the name Duffryn Consols

with an influential management and ample capital. In the first instance, the shares
will be offered to the old proprietors of Castell.

Ill be offered to the old proprietors of Castell.

CATHERINE AND JANE sold in Sept. 20 tons of lead for 264l. 3s. 10d. he lode in the 10 east is 4 ft. wide, composed principally of spar, with a branch of sultur an 1 lead, and of a promising character; but there is not anything particularly in

CEFN CWM BRWYNO (lead) has sold 334 tons 1 cwt. for 4754l. 6s. 1d.

s of blende for 1071. 3s. 10d. The mine, under the management of Messrs id a dividend in 1858, but has not paid one since. H AND WENTWORTH has sold 122 tons copper ore for 6171. 11s. 3d.

and tin ore to the value of 1478!. Calls made 21. 15s. per share. During the past year the principal operations have been forking Bucket's Old Mine, which has been completed to the bottom (the 52). There is a large in lode, which has been all worked away; but when fresh ground is opened it is calculated that it will pay well for working. A copper lode has been seen in the cross-cut south, which is of a very promising character. The old mine, from which so much was expected, is poor.

COLLACOMER has sold copper ore realising 52922. Os. 10d., blende

COLLACOMBE has sold copper ore realising 5292%. Os. 10d., blende 1691. Ss. 9d., and made calls of 10001. The wheel-pit and leats are finished, and the water-wheel, together with the main shaft, bob, and rods are in a forward state of completion, which the unfavourable weather has delayed. At the 63 fm. level a cross-cut is being driven north, for intersection of the middle lode, and communicating with the old engine-shaft. This (middle) lode is an exceedingly promising one, and a 30 fm. level has been commenced on its course, west of Morris's engine-shaft, for proof of same. It will also be opened on at the 63 fm. level, when intersected.

COOK'S KITCHEN has sold 143 tons of copper for 2994. 11s. Sd., and 198 tons of tin for 15,4901. 12s. Calls made 10s. per share. A large outlay has been made here for increasing the plant and machinery. During 1860 a new steam-stamps has been erected, and a man-engine nearly completed to the bottom of the mine. The bottom levels are looking well, and it is calculated 30 tons of tin can in future be returned monthly at a cost of about 12004, and this, it is hoped, will enable dividends of 10s. per share to be paid quarterly in 1861.

CONDURROW has sold 1911 tons 20 cwts. of copper ore for 66081. 1s. 5d., 48 tons 3 cwts. 2 qrs. 2 lbs. of tin for 38741. Is. 5d., and 18 tous of arsenic for 301. 5s. = 10.512. 7s. 10d. The mine is likely to do better in another year, several good points coming off.

coming off.

COPPER HILL has sold 576 tons 13 cwts. of copper ore for 39501. 9s. 6d., but has not paid any dividend, neither has any call been made. The lode in the 50 fm. level, on Paddon's lode, has been more or less productive through the year, and this lode has recently been reached at the 70, where it will produce 3 tons of good ore per fathom. The lode at the 70, at Michell's, has not proved so productive as anticipated, owing to its being disordered about that level. The ore lasted nearly down to the back of the level from the 60, and there is reason to hope that it will again become productive in sinking under that level. There has been an improvement in the last few days in the 60, east of the cross-course, on this lode, and it atill promises to be better. This is farther east than say ores have been seen before, which is an important feature. The new engine will go to work about the end of January, if not delayed by the weather, when the sump will be immediately resumed to sink under the 70.

The pumping-engine was completed and set to work on the since that time the water has been drained, and the mine cleared to the CUDDRA.—The pumping-engine was completed and set to work on the 28th August; since that time the water has been drained, and the mine cleared to the 66 fm. level. The late company worked the mine chiefly for copper, and from the surface to the 56 fm. level paid no attention to the tim part of the lode. It is bound that the tim part of the lode is from 4 to 12 ft. wide, which contains tim in paying quantities. The tim ground opened out is sufficient to keep a large number of stamps at work for many years. The prospects for copper in the eastern part of the mine are encouraging, as there is known to be a good lode of that ore in the 36 fm. level. A large stamping-engine is being erected to reduce the tinstuff; a steam-whitm is also being erected. The plant will, when completed, be of the best and most efficient kind, and it is hoped that good profits will be made as soon as the works are completed.

CYSTANOG has sold 7 tons of lead ore, realising the sum of 861. 9s., but the occarious have not been attended with that greats success which the prospects twelve

he operations have not been attended with that great success which the prospects twelve nonths ago seemed to indicate. The adit south, however, is still being driven on a fine dee, parallel and near to the commencement of the rich ore ground found in the adining Vale of Towy Mine, and a discovery may be made before long.

DALE has sold 2214 tons of lead ore, realising 2020. The junction of the Pipe vein with the Lum is expected to be reached shortly, when great results are nticipated.

ticipated.

DEVON AND COURTENAY has sold copper ore realising 584% 14s. 8d., ad made calls of 1202% 18s. 6d. The present operations are—Driving the 100 west on such part of lode; driving the 80 cast of cross-course; driving the cross-cut to intersect orth lode at the 80. These are points of importance, and there is a good lode in back I the 40 cast, which appears to be making away into whole ground.

EAST ALFIED CONSOLS has sold 186 tons 12 cwts, of tin for 1146% 14s.; undie 24. blands 63 15s 24. Calls made 25. 5d. per shape. The following de-

EAST ALFIRED CONSOLS has sold 186 tons 12 cwts. of tin for 1146l. 14s. aundic, 5l.; blende, 6l. 16s. 9d. Calls made, 2s. 5d. per share. The following carries the position of the mine:—"We are down to the 70, and driving out a cross-cu cut the south lode, which we expect to find productive, as at the 50 it first began it eak copper ore, which is about the depth that Alfred Consols commenced to meet wit. We have passed over about 10 fms. of good ore ground at the 50, and we hope in the 70 much more productive; we sold nearly all the ore at our last sampling from 18 lode, 77 tons: and as this was the first time we had any ore from the south lode, reaks well for our next level, and we shall, of course, have 20 fms. of backs when the de is cut, which we calculate will take about a month from this time. The north lot so we shall intersect at the 70; this lode has turned out several thousand pounds wort 'ore shallow."

sino we shall intersect at the 70; this lode has turned out several thousand pounds worth of ore shallow."

EAST BUDNICK AND MOUNT MINES are now being introduced to the public, in 6000 shares of 10s. per share, of which amount 1500f. is for engine and plant, and 1500f. for capital, so that no calls will be required for ten gooths, during which time good discoveries may be made. The mines are situate immediately on the east of Budnick Consols Mine, which was formerly very rich; and to the south of the rich Trebiskin and Mount Mines, now being worked by Messrs. Whitford, bankers of 8t. Columb. These mines are held at 1-18th dues for twenty-one years from September, 29, 1856. Besides their contiguity to Budrick Consols and Trebiskin and Mount, the setts are also immediately joined by Great Retallack and South Peru Mines on the east, and by Wheal Hope on the south. The whole of these mines have either been rich in their day, or are considered at present to hold out prospects of success. The Bud-nick Consols cast and west locks, which are also the same as those that made great riches in the Perran Mines, traverse these setts. The rich north and south lead lode (the Frebellan lode), on which an engine has been just erected by Messrs. Whitford at Tre-bisken and Mount, also passes through these setts, forming a junction with the Badnick seat and west locks. Some of the Wheal Hope lodes (which have been very rich) are likewise within the limits; and the big lode at Great Retallack will underlie into these mines in depth. The entire length of the sette from east to west is likewise traversed by an elvan course.

EAST CARN BREA has sold copper ore realising 1524L 3s. 8d, and tin

likewise within the limits; and the big lode at Great Retallack will underlie into these mines in depth. The entire length of the setts from east to west is likewise traversed by an elvan course.

EAST CARN BREA has sold copper ore realising 15241. 3s, 8d, and tin 1031. 18s. 3d., and made calls of 31501. This is a most promising mine, having three productive parallel lodes within 10 or 11 fms. of each other. The water is quick, which delays operations. The 26 fm. level, on the south lode, has been opened on about 50 fms., and several bunches of ore have been met with. Two winzes have been sunk at the bottom of this level, now down about 10 fms. The lode in the eastern winze produces 4 tons of ore per fathom, and the western one 2 tons per fathom. The 40 fm. level is extended 15 fms. on the middle lode. This lode has produced from 2 to 3 tons of rich yellow ore per fathom. A cross-cut is put out at the 50 to interesect these lodes, the middle one of which, it is expected, will be reached in about three months.

EAST GUNNIS LAKE AND SOUTH BEDFORD was expected to have been in the Dividend List of 1860. One cause in prevention of this, we imagine, was the serious flooding of the mine early in the year, consequent upon the heavy rains and rising of the river to the overflowing of the mine. The present prospects are full of hope for the coming year, there being three important points to come off almost at once, and all from appearances likely to result favourably. The winze in the bottom of the 36 east, in a very fine lode, is yielding 8 tons or more per fathom. The 36 end has been in a poor bar of ground, but is thought to be close to a change for the better. Gard's shaft is sinking between two beautiful lodes, which will unite very shortly. The cross-cut from the 36 to the middle lode is within 2 or 3 fms., and the deep adit is on a very fine lode of gossan, ore, and mundic. One or two cross-curses intersect the lodes a little east of the present workings; these form an important and valuable feature in the concern

east of the present workings; these form an important and valuable feature in the concern. The patience and outlay of the shareholders are, we trust, on the eve of being fully compensated.

EAST POOL has sold this year 1910 tons 5 cwts. of copper ores for 80824. Ils. 2d.; tin, 58 tons 16 cwts., 38864. 15s. 8d.; arsenic, 79 tons 5 cwts., 1294, 9s. 2d., but has not paid any dividends since 1858, when it paid 6404. The mine is looking better, and good dividends since 1858, when it paid 6404. The mine is looking better, and good dividends since 1858, when it paid 6404. The mine is looking better, and good dividends are anticipated for 1861.

EAST PROVIDENCE adjoins Providence Mine on the east, and on the same lodes, and has hitherto done nothing. Lately, however, they have been working nearer the Providence boundary, and have cut the Providence rich south lode in the adit level. This lode in Providence is subject to great fluctuations, both in value and size; sometimes it is very small, and sometimes very large and very rich. Where they have it at East Providence it is small, about 6 in. wide, very good work for tin. It is proposed to drive east on it a little more, and then sink a shaft on it from surface. This lode has been dialled, and it runs a little to the south of the engine-shaft, so that it may soon be expected to be cut in the cross-cut south, at the 40 fm. level, from that shaft. If cut good there it will be a fine thing.

EAST ROSEWARDE (Gwincar).—During the past twelve months 530 tons of copper ore have been sold, realising 49131., which shows an increase of 38631. upon 1859. Balance in favour of the mine at the last meeting, 4934. Ils. 2d.; profit on the past four months, 5104., which at the meeting in January will give a balance of 9104. to carry over to the next account. In the 43 fm. level they have passed through a course of ore 25 fms. long, worth from 154. to 254, per fathom. In the 55 a cross-cut is within 7 fms. of the lode, and should the run of or be met with in this level the mine will pay

equating to 23641.

East Trevenen has sold 13 cwts. 3 qrs. of tin for 551. 12s., and pre-

EAST TREVENEN has sold 13 cwts. 3 qrs. of tin for 551. 12s., and preparing another parcel for the market.

EAST WHEAL RUSSELL.—Although this "celebrated" mine has not yet paid a dividend, the progress made has not been unsatisfactory. No call has been made since Nov., 1859, and though a new engine has been bought and paid for, and the costs have been increased by its erection, the balance of assets over liabilities to end of last September was \$451. 10s. 8d. The loss on the quarter was only \$91. 3s. 5d. The 88 has proved richer than the 68, and the 100 better than the 88, and there is every prospect of the 110 (now being driven) being still richer than any level above. The reserves are estimated at 1760 tons of coppér ore, worth \$81. per ton. In the past year 1063 tons have been sold for 90691. 9s. 6d., against only 421 tons for 32401. 19s. 3d. in 1859.

EXMOUTH MINE has sold this year of lead 628 tons 15 cwts. 2 qr. for 75231. 8s. 6d.; blende, 40 tons 18 cwts. 3 qr. for 1151. 10s. 5d.; and other ores, 21 tons 13 cwts. for 491. 5s.; making a total of 691 tons 5 cwts 1 qr. realising 76881. 3s. 11d. No dividends have been paid this year, but a call of 5s. per share on 5700 shares: -1420. was made on Nov. 9. In addition to the above sales of ore, 80 tons of lead wee sampled on Dec. 28, and will be sold on Jan. 4. The mine is changed from a dividend to a call-paying mine. The lode in the 84 has disappointed the expectations of captains and managers. Another call must be made on the 11th inst., but there are great hopes that the mine will improve both north and south; in the north under an immense mass of good gossan visible in the adit level, and which has not been driven under; and in the south from the change in the ground and lode, the end in the 40 being similar to the lode in Frank Mills, just before the improvement.

FURZE HILL WOOD (Walkhampton) was worked extensively about 70 years ago, when tin was less than half its present price, by the means of two adits at 6 and 11 fms. deep. the latter having been dri

Furlze Hill Wood (Walkhampton) was worked extensively about 70 years ago, when tin was less than half its present price, by the means of two adits at 6 and 11 ims. deep, the latter having been driven 500 fms. across the lodes to unwater them, but 5 fms. deeper, after knowing their exact value by the shallow adit. This fact (supported as it is by the worth of the arches) most decidedly proves the value of this property, even at the then low price of tin.

Garlina has been put to work this year by Mr. Plomer, of Helston, and the calls made up to October have been nearly 5t, per share. The mines are in Wendron, and very extensive, extending 500 fms. from east to west on the course of the lodes, and 650 fms. from north to south. A 65-in, pumping-engine has been erected, and went to work in July; also, a 24-in. stems-stamps, with 32 heads of stamps. The mine has been forked, and so far as seen of the lode the prospects are good.

GAWTON COPPER MINE.—The sales of ore during the past year have been small, but the mine has improved during the past quarter, and is now paying cost. The 36 and the 50 ends are driving towards Okel Tor Mine, and are looking kindly for copper ore. The mine is situated on the banks of the River Tamar.

GERNICK.—The works at this mine have been actively resumed in the past year, and an engine-shaft sink to the 20, on the great south thi lode. This lode is

copper ore. The mine is situated on the banks of the River Tamar.

GERNICK.—The works at this mine have been actively resumed in the past year, and an engine-shaft sunk to the 20, on the great south tin lode. This lode is highly mineralised, and the mine promises to be a great property when this and the other lodes are fully developed.

GOGINAN LEAD MINE (Cardiganshire), under the management of Messrs. John Taylor and Sons, formerly made large profits. This year the mine has sold 291 tons 16 ewts. of lead ore for 52504. 6s. 1d., and made calls to the extent of 12564.

GOSAMENA has sold 727 tons of copper ores for 40504. 2s., and 35 cwts. 1 qr. 16 lbs. of tin for 1411., and has not made any call. During the year a great change has taken place in the character of Sarah's lode—from copper to tin. The tin was first discovered in the 80, 15 fms. west of the South and West Caradon boundary cross-course. It has been driven on 15 fms. in length, and averages 251. per fm. Tin has also been found in driving east of this cross-course at this level. At the 90 a good tinny lode has also been discovered, and is being driven on. In the 55 fm. level, 25 fms. east of the cross-course, a shoot of copper or has been cut. A winze has been sunk on it about 10 fathoms, where the lode is evidently undergoing a change from copper to tin, and is worth 151, per fm., which can be taken away for 40s. A 12-head stamps has been 4 small parel of tin (to test its value) brought 80t, per ton. It is confidently expected that from the tin ground already discovered, and the copper lodes which are now being developed, the present year will see the mine placed in the Dividend List.

GREAT BADDEEN has not sold any ores this year, and has made calls amounting to 11s. per share. The ground has been very hard, and now paying 40t, per fathom for driving through and the copper lode where the lode is expected to be cut.

nounting to 11s. per share. The ground has been very hard, and now paying 40*l* thom for driving through a hard killas, where, however, the lode is expected to be

when for driving alrough a larte sinar, necessary and severy day.

Great Caradon Mine.—The mine is in the Caradon district, and is supposed to have the East Caradon lodes. The engine-shaft is down to the 40, and cross-cuts driving in that level to cut the lodes. At present the shaft is in killar.

Great Crinnis.—These mines have not improved in the manner ex-

pected at the end of last year, though the lode in the new shaft is very large and orey throughout. The lode has varied in width during the year from 6 to 12 feet. It is still the opinion, however, of practical men who have inspected the mines, and who are acquainted with the district, that the counterpart of the former great deposit of copper ore will be found in the direction of the new shaft, and works in connection therewith. The ore ground driven through is now in good order for stoping, consequently the remrs will increase. When the size and character of the lode is considered, and bearing in mind that this large lode produced copper ore to the value of 1,500,000. From the first deposit; and seeing, also, that the lode has resumed its large size in the new shaft, where it is producing ore throughout, it is apparent that the prospects are of a very encouraging character.

er. RETALLACK has sold this year 2435 tons of blende for 58541., and GREAT RETALLACK has sold this year 2435 tons or dienue for 350-35., and ton Scotta. 2 grs. of silver-lead for 571., and made one call of 25. per share. The mine has progressed very antisfactorily, and as at the meeting, on Dec. 11, the accounts showed assets over liabilities of 11821. 1s. 11d., and the agent calculated he could raise 500 tons used to very labilities of 11821. 1s. 14d., and the agent calculated he could raise 500 tons of blende per month, for six months, there is every prospect of good dividends in 1861. GREENHILLY Moon (Germoe) has sold tin for 5791. 16s. 9d. this year, and made a call of 1s. per share. The mine is private.

GREAT TREVEDDOE has sold this year 24 tons of tin for 14971.; last

and made a call of 1s. per share. The mine is private.

GREAT TREVEDDOE has sold this year 24 tons of tin for 1497L; last year 22 tons were sold for 1373. Several hindrances, such as the falling in of ground, breakage of machinery, &c., have been met with this year, or the returns would have been larger; and the refusal of the principal shareholders to allow the secretary to call been larger; and the refusal of the principal shareholders to allow the secretary to call been larger; and the refusal of the principal shareholders to allow the secretary to call been larger; and the refusal of the principal shareholders to allow the secretary to call been larger; and the refusal of the principal shareholders to allow the secretary to call been larger; and the refusal of the september of the mine, it is believed, are as good as were.

GREAT WHEAL ALPRED has again been a great disappointment, and we fear but little prospect of doing without heavy calls for some time to come. Once or twice during the year good improvements, leading to the expectation of better results, took place, but were of short duration. The returns of the mine are considerable, but the costs of working are more. Copper and tin sold this year realised 14,603, 5s. 3d.

GREAT WHEAL BUSY (Kenwyn).—During the last year the sales have realised—For copper, 15,891, 1s. 6d.; thi, 13,364, 15s. 2d.; mundle, 1804. S. 10d.; and al 20 cupal to the 100, 90, and 70, the mine will make good profits. The 70 and is worth 30f. per fin., 30 end 80f. yer fin., 100 end 40f. per fin., and a course of ore in the bottom of the 90 west is turning out from 15 to 20 tons per fin. The 110 is nearly up to the run of ore. This is one of the largest setts in Corawali, and altogether the outlay of the present company in calls has been 72,000f.

GWYDYE PARK CONSOLS has sold lead ore to the value 587f. 14s. 3d., and made a call of 1s per share. The prospects are not very encouraging.

Hingston Down has sold 1768 tons 10 cwts. 2 qrs. of copper ore for 7581f. 17s. 3d., and made calls o

MERLLYN has sold 10 tons 16 cwts, of lead ore for 146L, and within the

MERLYN has sold 10 tons 16 cwts. of lead ore for 146%, and within the last month a good discovery of a new lode has been made, which, if it continues, may bring the mine into the Dividend List next year. This lode is worth 1½ ton of lead ore per fm., and there is a run of more than 200 fms. upon it. A few years ago the mine paid 7000%, in dividends, and soid altogether about 50,000%, worth of lead.

MILL POOL has sold 67 tons 19 cwts. 3 qrs. 19 lbs. of tin for 5448%, 18s. 6d., and made calls this year of 14s. per share. At the last account a profit was shown. The following is a report of the mine:—"The south lode at Greenbury Moor looks well, and the returns of tin at this part exceed 1½ ton per month at and below the adit, which is 35 fms. deep; there are several ideas to cut here, which will, if productive, render this part of the sett of itself a good speculation, as the mines in this neighbourhood, St. Aubyn and Grylls, Wheal Grylls, &ce., are draining the water below adit. We have raised considerable quantities of tin from this lode. We are also 52 fms. deep on Harvey's lode, and have passed through a productive saw we near the cross-course to meet with as good a deposit of tin as they have on the other side. We are also 52 fms. deep on Harvey's lode, and have passed through a productive lode for a great many fathoms in length at the 42, and the 52 is now becoming productive as we get under the tin ground gone down below the 42."

NANGHLES (Gwennap, adjoining Clifford on the east) has lately been reconstituted on the Cost-book System, in 1024 shares. Active operations are being commenced.

NANGHLES (APPLENDIN — More extensive operations have been com-

Manteos and Penrhiw.—More extensive operations have been com-

NANTEOS AND PENBHIW.—More extensive operations have been commenced, with every prospect of leading to profitable results. The north lode at Eystumtean has been proved rich 6 fathoms below the deep adit, and a new wheel is being erected to sink on it deeper. In a few months important reports may be looked for from these mines. In the past year 255 tons of lead ore have been solid for 2825!.

NEW EAST WHEAL RUSSELL has made calls amounting to 233l. 10s. This sett has been shoaded, and the East Russell lood discovered for a great length eastward from the East Russell boundary; the lode is large, and similar in character to the adjoining sett. Yery little could be done in sinking, from the very wet summer and autumn, although tried in several places. Since then an adit has been continued westward from the eastern boundary; on the course of a lode which in the present end shows a good appearance—prian and ore worth 2 tons per fm.

NEW TRELEIGH.—Since this mine has been placed under the management of Mr. F. Pryor, all the levels above the 60 at Carr's shaft, which were poor, have been suspended, the operations being restricted to those of greater promise—namely, the 60, 70, and 80, but more especially the two latter, in which there are good courses of ore driving east, varying from 3 to 8 tons of ore per fm. There is a great deal of ore ground laid open in the back of the 70, to stope away. The calls made during the year were 7s. per share, and the quantity of ore raised and sold during the same period, 205 tons, value 1175! The next sampling is expected to be full 150 tons, which will take place in January.

New Wheal Hender has a should be a few the same period, 205 tons, New Wheal Hender has a second profit of the control of the contr

value 11751. The next sampling is expected to be full 150 tons, which will take place in January.

New Wheal Hender has sold this year 28 tons 10 cwts, of copper ores for 1521. 18s. 2d., and tinstuff, 8l. 5s. 9d.; calls made, 2l. per share (1024ths). This mine was worked as Wheal Hender a few years back, and at a shallow depth presented such prospects of success that shares were at a high premium. The company was afterwards dissolved, and the present formed.

New Wheal Seton Lodes, one the engine-shaft, the other a whim-shaft, which is from 49 to 50 ims. west of the engine-shaft, and which will prove the lode as it sinks. Communication will occasionally be made one with the other, for the purpose of ventilation. The lode in both shafts is large, from 4 to 6 ft. wide; it contains large quantities of mundle, prian, and spar, and such other indications as lead to the expectation of having a good mine, with patience and a moderate outlay. The current cost is estimated at about 10s. per share per month, in bringing up an adit to this lode; a very fine branch was intersected, containing copper, lead, &c., and which will be intersected in the engine-shaft at from 30 to 40 fms. under the adit; most people who are looked upon as competent judges in the neighbourhood are sanguine that this mine will uitimately turn out a good speculation.

New Wheal Chapper — When the clearing of the adit is completed, it

mpetent junges in the designation of the addit is completed, it is when the Clearing of the addit is completed, it is when the clearing of the addit is completed, it is added to the completed of the complete of the complet e run of tin gro said that a nice that of the ground will be advantaged in the control of the cont

NORTH BASSET has sold copper ore realising 2293l. 11s. 6d.; tin, 1228l. 9s. 5d.; and made calls of 5700l. Nothing of importance has been met with in this mine during the year. The shaft is set to sink for a deeper level, where it is expected the clean granite will be met with, and the lode found to be productive, similar to most of the mines in this district, which have been worked at the requisite depth.

NORTH BULLER.—This mine has not made any discovery of note during the past year. The engine-shaft is down to the 100, and a cross-cut driven to cut a large tin lode, which is supposed to have formed a junction with the elvan course. The mine has been recently inspected by several agents, and a strong opinion given as to a productive lode being met with in the 100; the end must be close to the lode, the amount of water coming from the end makes it very slow and difficult to drive; the engine is working 10 atrokes per minute to keep the water. The mine adjoins East Basset to the south, and Wheal Uny to the north.

NORTH Downs has sold this year tin to the amount of 215%. 12s. 7d.; ANORTH DOWNs has sold this year this to the amount of 2154. 12s. 7d.; paper ore, 72934. 7s. 3d. From the state of the mine at this time last year, we fully spected dividends before this. The mine is looking better. In a winze below the 50 he lode is worth from 604, to 709, per fathom.

NORTH EXMOUTH has made calls amounting to 28004. This mine was murerly called Wheal/Adams. The ores sold this year have been, lead, 484. 6s.; blende, 0 tons, 1509. The lode will be cut in about a week, and good results are, looked for, as was rich in the adjoining mine.

was rich in the accoming mine.

NORTH GRAMBLER has sold 251 tons of copper ores for 27731. 14s. 6d.,

NORTH GRAMBLER has sold 251 tons of copper ores for 27731. 14s. 6d., and made calls to the extent of 5s. per share. The mine is now making small profits; the lode is parallel to Grambler and sk. Aubyn, and deposits of rich ore are met with. NORTH LAXEY looks promising. As they drive south the lode and strata greatly improve. In the 12 south they came upon a new lode, which is considered almost certain to be the great Laxey lode. It varies from 1 to 3 ft. wide, and it is said mine. In the 27 end the lode is 2 ft. wide, composed of gossan, with a branch of solid being sunk below the 27.

NORTH LEVANT has sold tin to the amount of 31571. 10s., the average price being 781. 12s. per ton. The calls made amount to 2501. The costs have been

price being 781. 12s. per ton. The calls made amount of 31571. 10s., the average price being 781. 12s. 4d., and royalties paid 1241. 11s. 3d.

NORTH MINERA has progressed very satisfactorily this year, and Capt. Jas. Roach concludes a very long explanatory report, by stating that "North Minera is a set of great magnitude, and, in my opinion, has all the characteristics of a great lead-bearing property.

bearing property.

NORTH TRELAWNY has sold this year 26 tons, for 485l. 10s. 7d., and made four calls, amounting to 1244l., the last being 2s. per share, on Oct. 3. The principal point of interest in the mine at the present moment is the Wheal Ledder to the first the 65, which is soon expected to be cut.

NORTH WHEAL BUSY has sold tinstuff to the amount of 3147l. 2s. 10d.;

NORTH W HEAL DUST has SOIR this third to the amount of 31471. 2s. 10d.; blende, 641. 1s.; copper ore, 18 tons 2 cwts., 1721. 1s. Sd.; mandle, 27. 11s. 10d.; and made calls this year of 11. 6a, 11d. per share. The mine is down 9 fms. below the 41, and when down to the 51 driving will be commenced. There is a good lode in the 41 east, and large quantities of tin have been returned, with prospects of increasing them. The Hallenbeagie copper lode is also expected to be cut productive.

[To be concluded in next week's Mining Journal.]

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